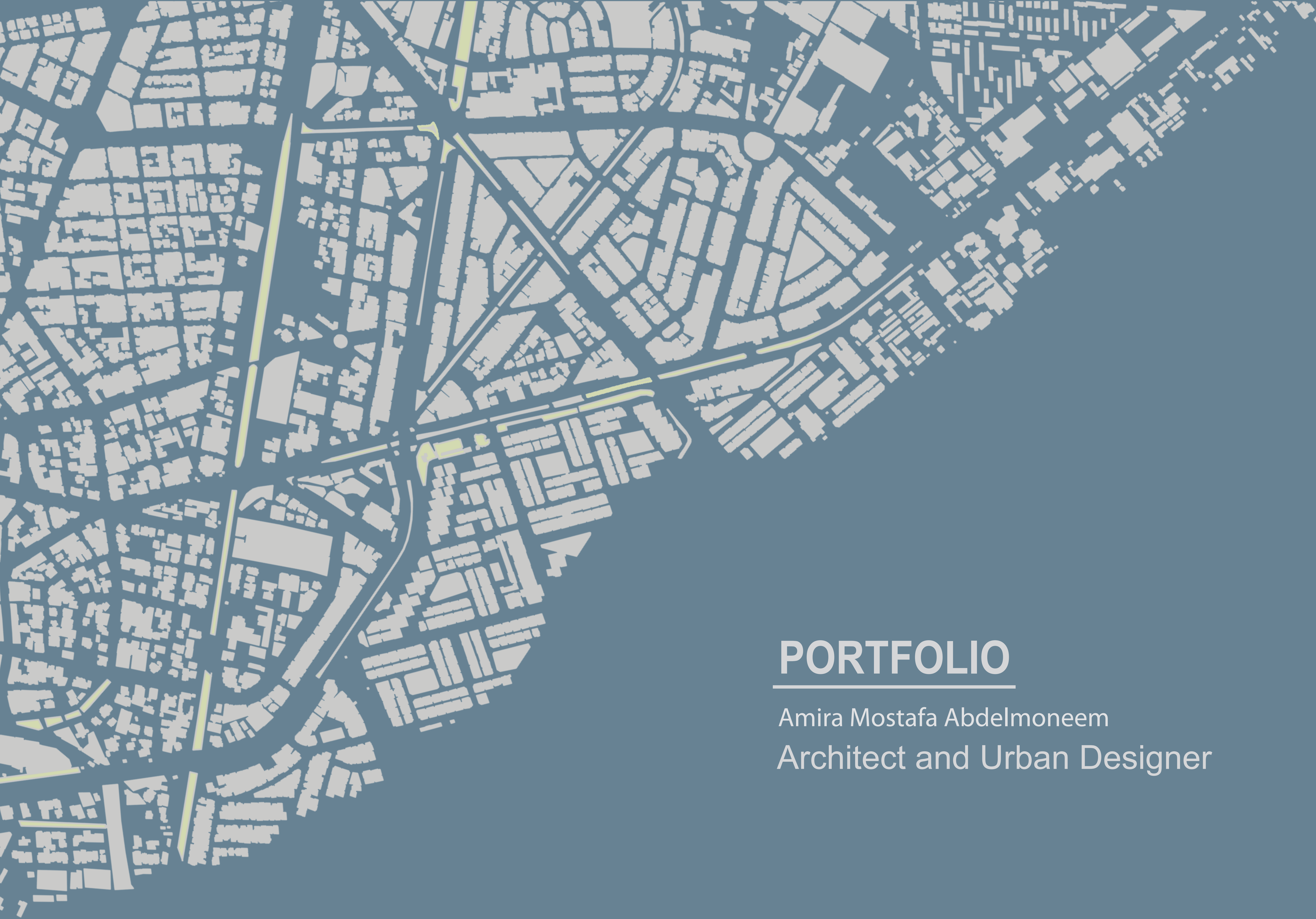

PORTFOLIO

Amira Mostafa Abdelmoneem

Architect and Urban Designer

ABOUT ME

An enthusiast person, eager to contribute in team success. has an exceptional ability to develop innovative ideas, excellent organizational skills, currently Seeking an opportunity to utilize my potentials, also to be mentored towards a successful career.

CONTACTS

Alf Maskn, Cairo
(+20)1157344478
amirazalazel@gmail.com

linkedin.com/in/amira-mostafa-41907016b
behance.net/amiramostafa2

LANGUAGES

Arabic
English (B2)
German (A2)

TECHNICAL SKILLS

Photoshop
Illustrator
InDesign
Adobe premiere
AutoCAD
3d Max
Revit
Rhinoceros
Corona renderer
Lumion
Primavera
Cinema 4d
Sap
Arch GIS
Adobe Lightroom

PERSONAL SKILLS

Team work
Attention to detail
Fast learning
Observation
Organization
Creativity
Problem solving
Flexabilty

COMPUTER SKILLS

MS office
MY SQL
Python
Exel

EDUCATION

- *2017 - 2022*

  B.S Degree in Urban planing and Design
  Studied at Ain Shams University, Faculty of Engeneering, Department of Urban planing and Design
  Graduated with an accumulative grade of Very Good and Excellence in the Graduation project

EXPERIENCE

- **Junior Planning Engineer**
  Al walaa Company (Nov 2022 - Present)
  planning and tracking the progress of the projects
- **Design summer school-DSS program**
  Studio 34 (Jul 2021 - Oct 2021)
  attended online courses in visualization and architecture talks
- **Site engineer intern**
  Engineering Consultancy Center (Aug 2021 - Sep 2021)
  trained in landscape works, working details and project phases execution.
- **Social media moderator**
  Farma plus (Sep 2018 - Dec 2019)
  Worked in data entry and organizing costumer's data for shipping.
  Increased customer satisfaction by resolving their complaints.
- **Data entry operator**
  Con Estilo online shop (Oct 2019 - Dec 2019)
  Dealt with customer's data and organizing shipping information.

ADDITIONAL ACTIVITIES VOLUNTEER WORK

- **United Nations Secretariat /Volunteer at COP27-Sharm el sheikh in 2022**
  employed as a general support - help desk during the UN Climate Change Conference of Parties held in Sharm el Sheikh, Egypt
- **Team Leader of Outgoing Global Volunteer at AIESEC ASU in 2021**
  Managed +20 outgoing exchange volunteers from Egypt to abroad.
- **Media member at ENACTUS ASU in 2019**
  Documenting big events and Video editing work for the audits final projects.
- **Marketeer at BASMAH in 2018**
  Organizing events by contacting the speakers, bands, sponsors.
  Participating in Cairo runners events as BASMAH organizer.
- **Money Talks Track Volunteer at Warqa wa klm in 2018**
  teaching orphans about business, market needs and sales and applying these definitions in real small projects that made certain profit.

CONTENTS

INDIVIDUAL PROJECTS

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2. Gen-Z City - Gaming and Business Park p.17
3. Tranquille Mixed Use Tower p.24

GROUP PROJECTS

1. Gateway To Heliopolis p.32
2. Abre De La Via Compound p.41
3. Morocan Garden - International Park p.50
4. Residential Neighbourhood p.56

PERSONAL WORK

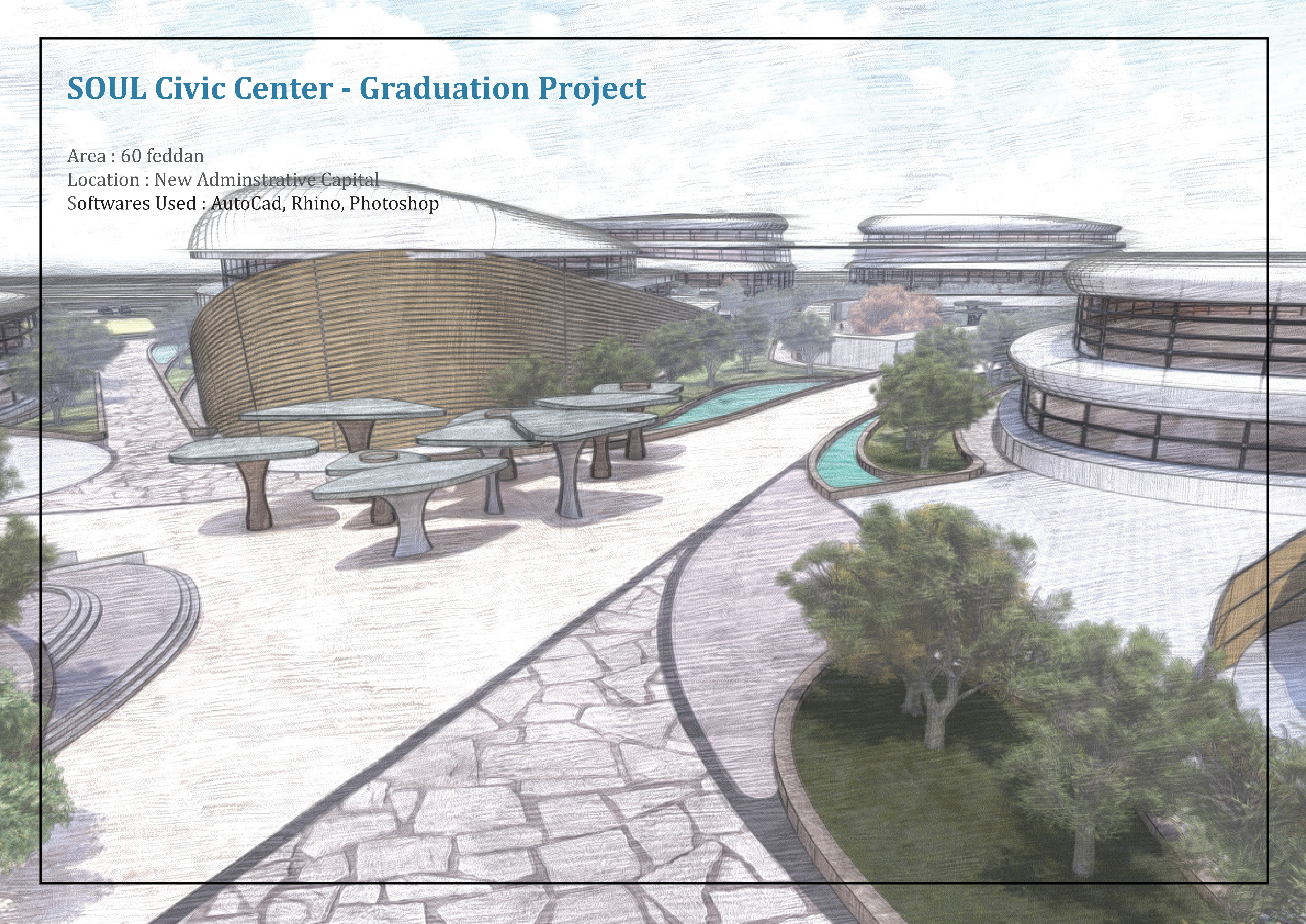
Concept Art - Photography p.61

INDIVIDUAL WORK

Urban design - landscape -Architecture

SOUL Civic Center - Graduation Project

Area : 60 feddan
Location : New Adminstrative Capital
Softwares Used : AutoCad, Rhino, Photoshop

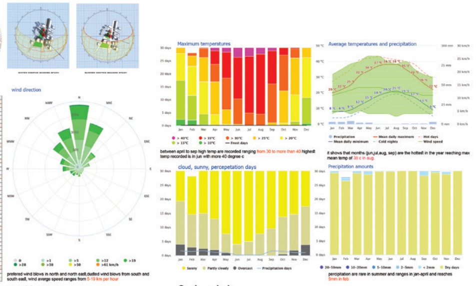


SOUL CIVIC CENTER

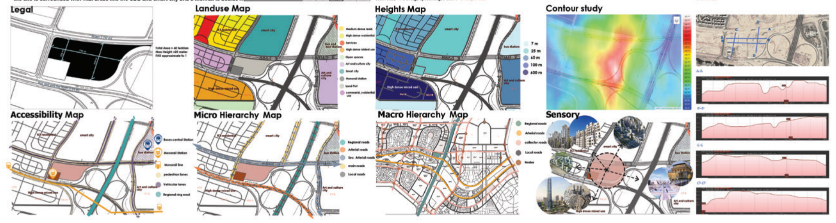
AMIRA MOSTAFA

Location

Eironmental studies



Site analysis



A linkage between Cairo and NAC

through:

the principle of connected city :

A cheap and fast mean of transportation (the monorail) anyone can reach

people attraction approach :

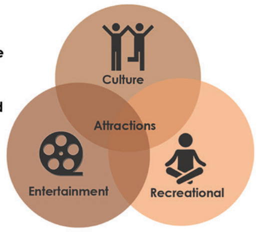
Adopting 3 main attraction themes cultural, recreational, entertainment that guarantee liking of different kind of people

people-oriented design

The concept of the Agora by encouraging social interaction and creating lively shared spaces serving a diverse array of activities to Bring people together fostering social cohesion and tackling loneliness and mental health,

the principle of sustainable city

Adopting a Biophiliic design that connects human with nature and other living beings.



targeted people

An open space any one can go ...." A place for all"

A first choice place to spend ur time , a place for CBD bussinesmen, students, women, children, youth,....

Open market

Reflections of the researth phase

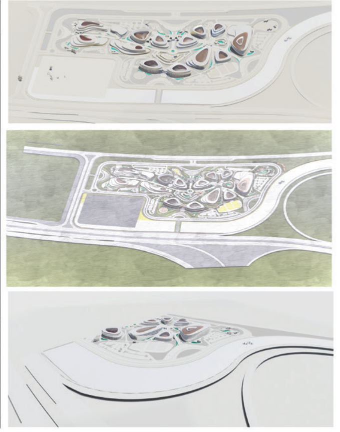
Happy city Piller: Choosing a site adjacent to low carbon public transportation, non-motorized lanes and near livable part of the NAC

Quality of life context : achieving pedestrian friendly project ,access to transportation, ...) economic and political qualities and social qualities from the reflection

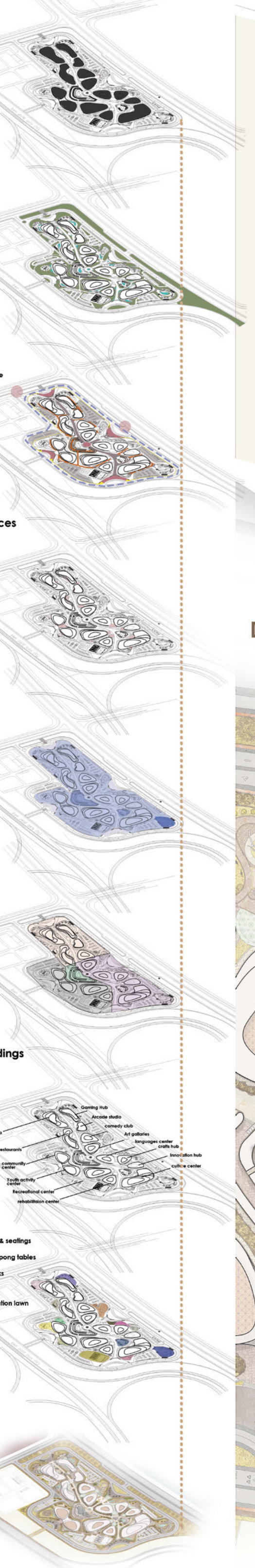
Choosing the civic center scale of regional to serves variety of people, cultures and levels. Making linkage to Cairo may will foster the function of the civic center

Program

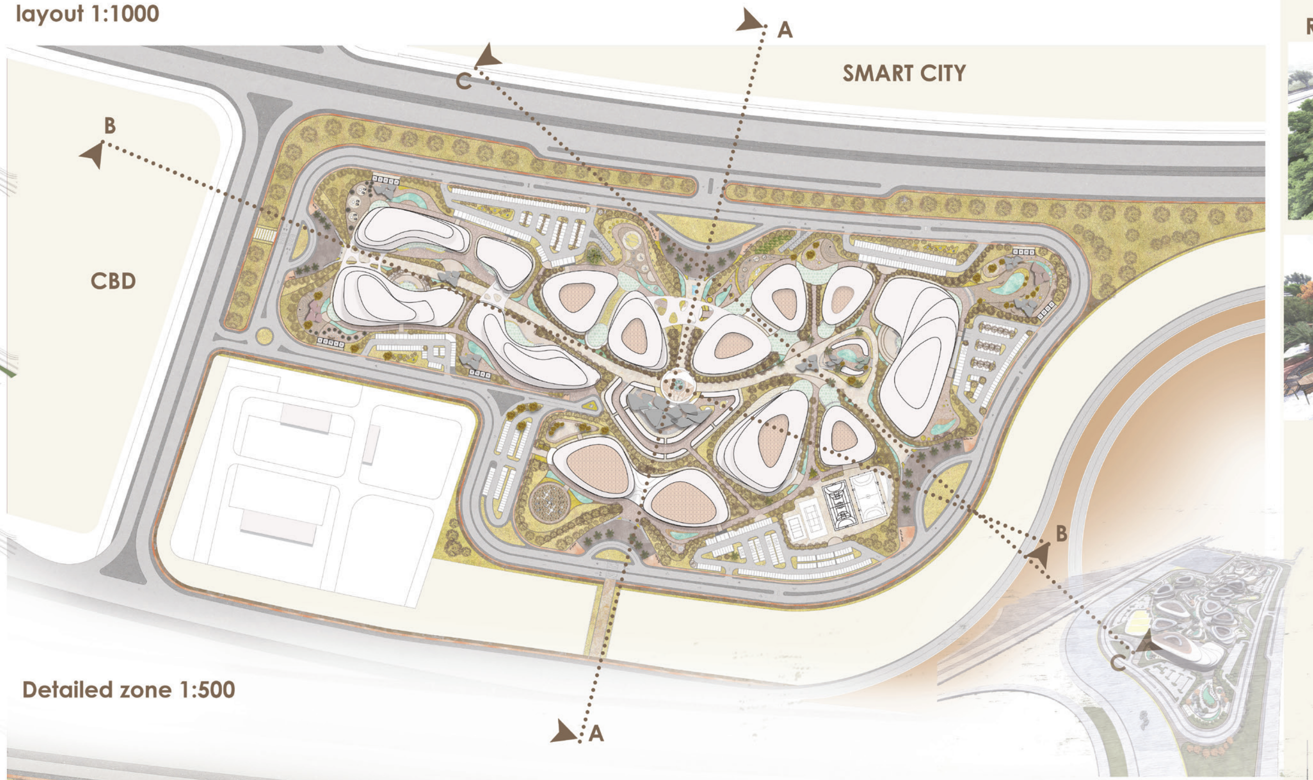
ZONE	USE	AREA	Total Zone Area (Building + Open Spaces)	FOOTPRINT	No. of floors	Total built up area	FAR
Cultural	Innovation hub	1802	21166	1802	3	5406	0.31
	Cultural center	7981		7990	5	39905	
	Arts gallary center	2891		2900	3	8673	
	Art exibitions	3256				0	
	crafting hub	2330		2330	3	6990	
	languages center	2906		2906	4	11624	
Recreational	Youth activity center	3204	22022	3204	4	12816	0.23
	community center	3166		3166	4	12664	
	Recreational center	5517		5517	4	22068	
	playgrounds	5733					
	lawn plaza	1824					
	scating area	400					
	rehab center	2178		2178	3	6534	
Entertainment	Gaming hub	3117	12453	3117	4	12468	0.19
	Arcade studio	1648		1648	2	3296	
	Cinema	4474		4474	4	17896	
	Muiltipurpose club	2824		2824	3	6260	
	kids area	390					
Services	kiosks	4015	192589	4015	1	4015	0.08
	Retail& restaurants	4445		4445	3	13335	
	Open market	7422					
	Roads & parkings	37234					
	plazas	6224					
	landscape	133249					
Total		248230	248230	52516		21.16%	0.81



3D Diagram



layout 1:1000

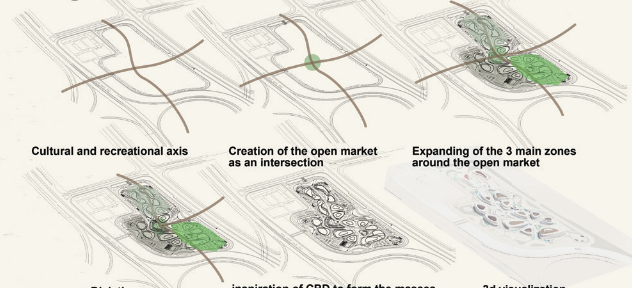


Detailed zone 1:500

Reading zone

Gathering spot

Form generation



Structure system used

Architecture style

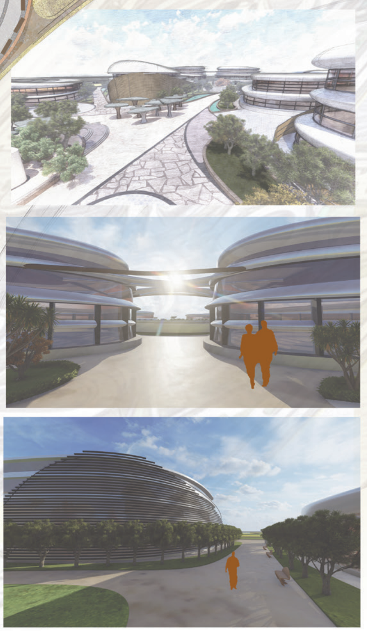
Ispiration of the masses

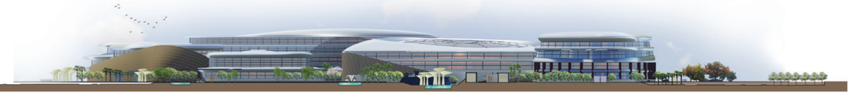
-the futuristic design of the New Admistration to be a fourth generation city

-breaking the boundaries between modern and traditional

Keywords:

AGORA BRING PEOPLE TOGETHER BREAKING BOUNDRIES LINKING





Section A-A 1:500

Section B-B 1:500

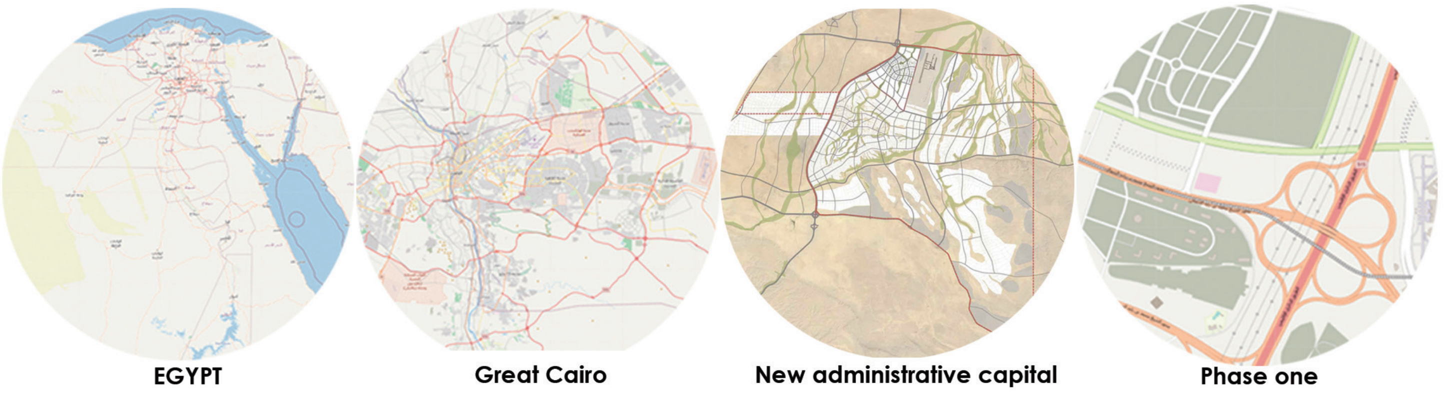
Section Elevation C-C 1:500

Southern Elevation 1:500

Northern Elevation 1:500

LOCATION

Located in the Phase one in New admistrative capital next to the monorail station



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Adopting 3 main attraction themes cultural, recreational, entertainment that guarantee liking of different kind of people people-oriented design
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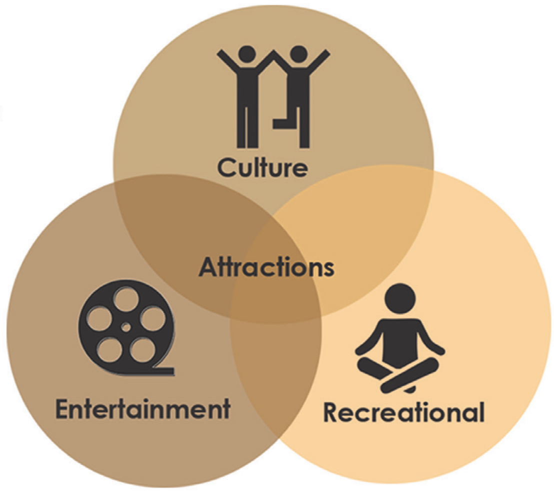
Adopting a Biophiliic design that connects human with nature and other living beings.



targeted people An open space any one can go

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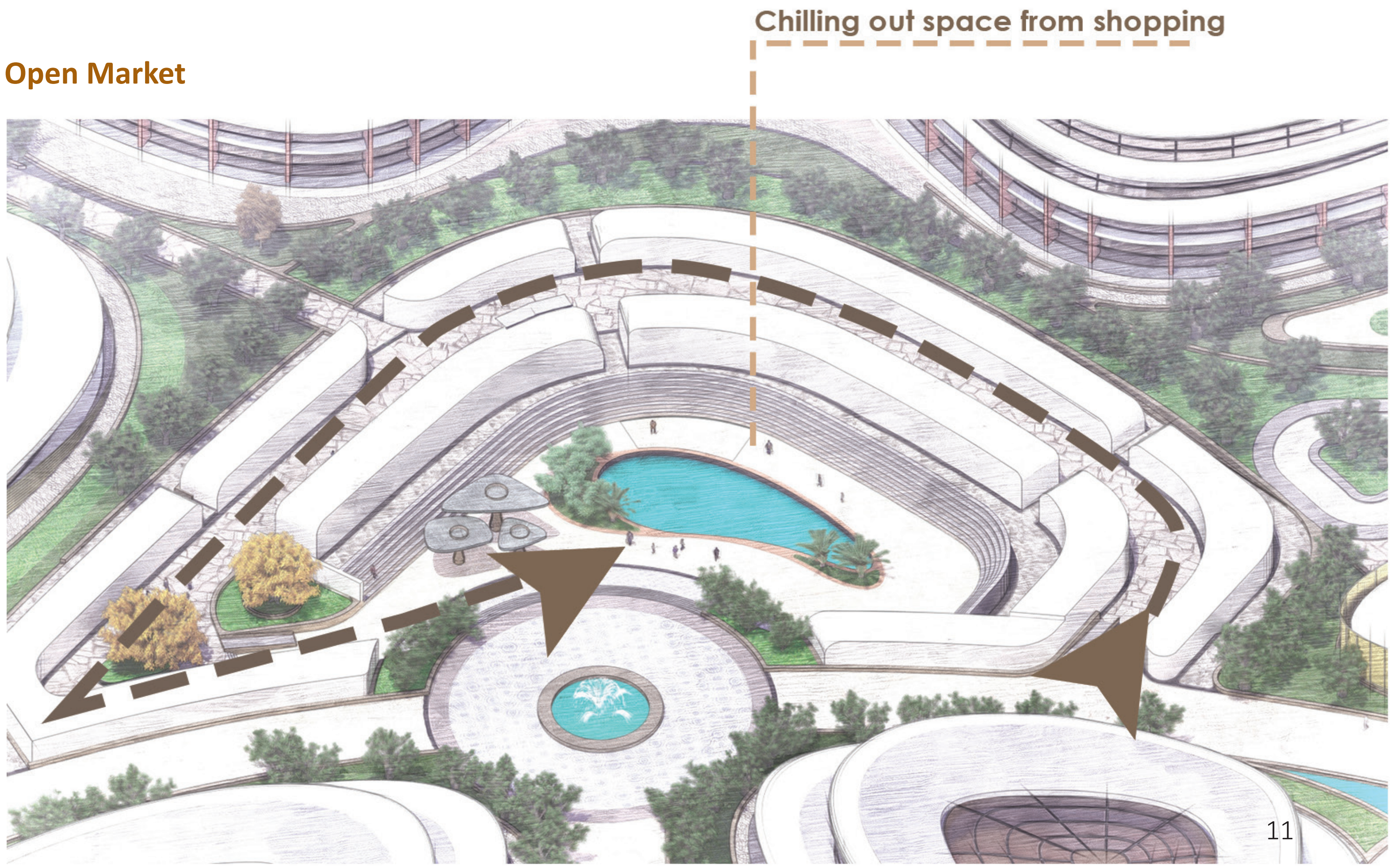
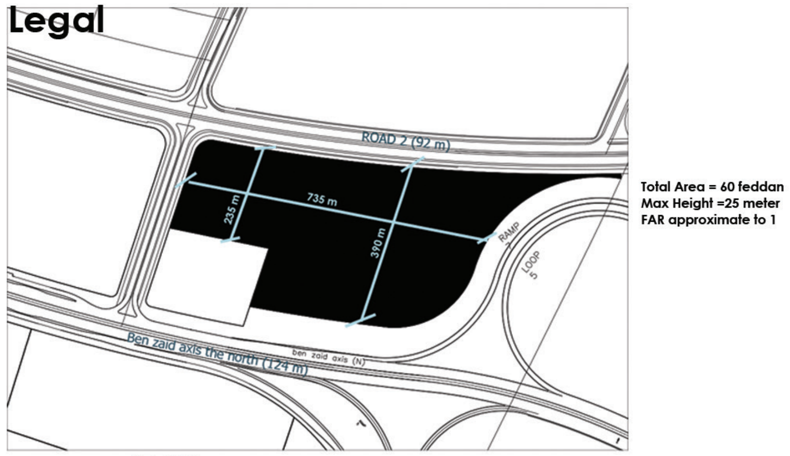
Open Market



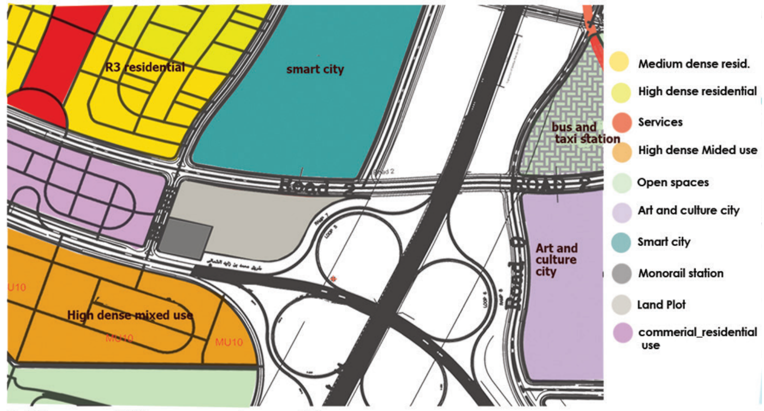
SITE ANALYSIS

The site is suurounded with two main roads ben zaid the north from the south,a ramp 7 from the regional ring road
Max. height of ay building to be constructed is 25 m
Contour of 15-20 meter is noticd
The site is surrounded with vital areas like the CBD and smart city and a monrail is beside it.

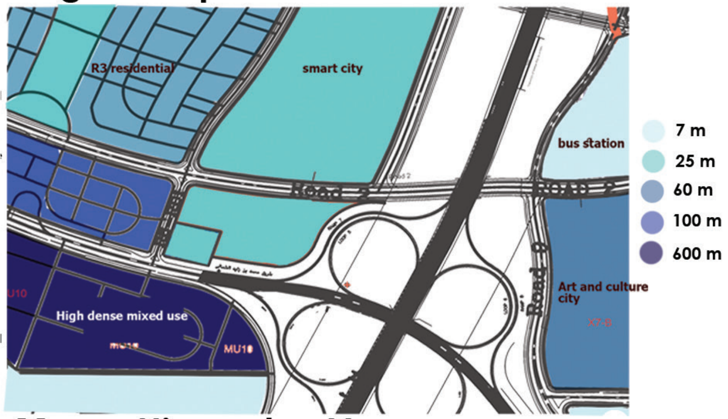
Legal



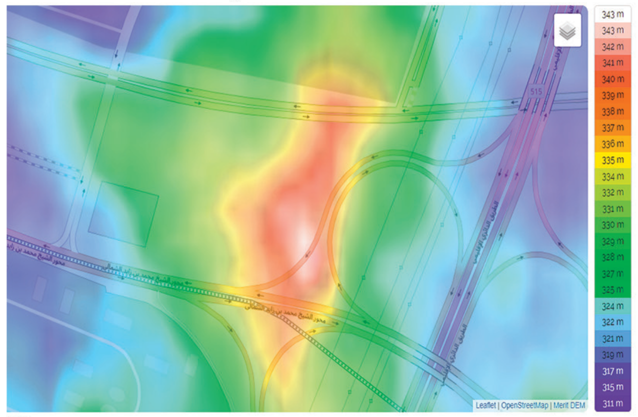
Landuse Map



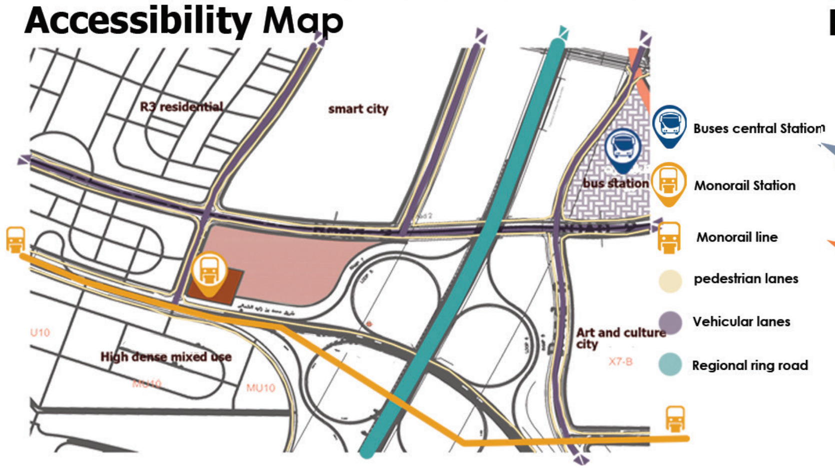
Heights Map



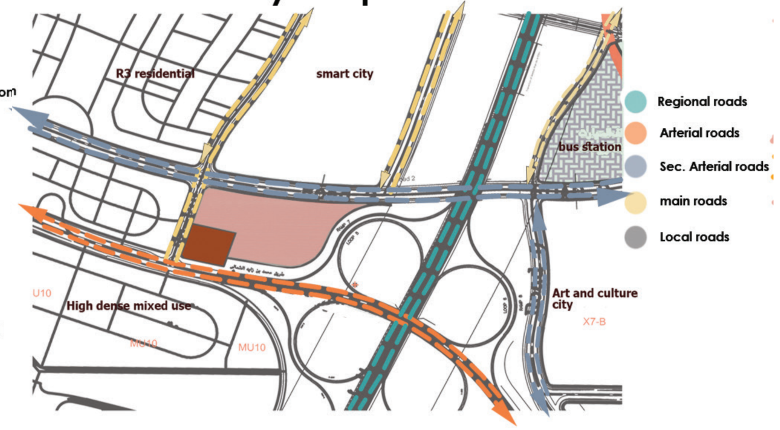
Contour study



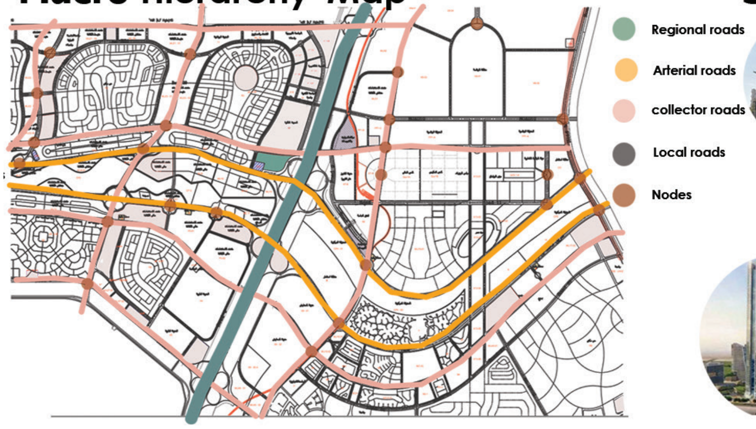
Accessibility Map



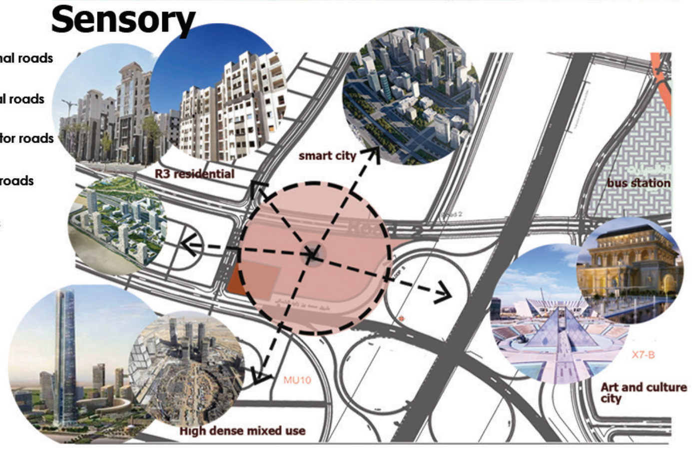
Micro Hierarchy Map



Macro Hierarchy Map

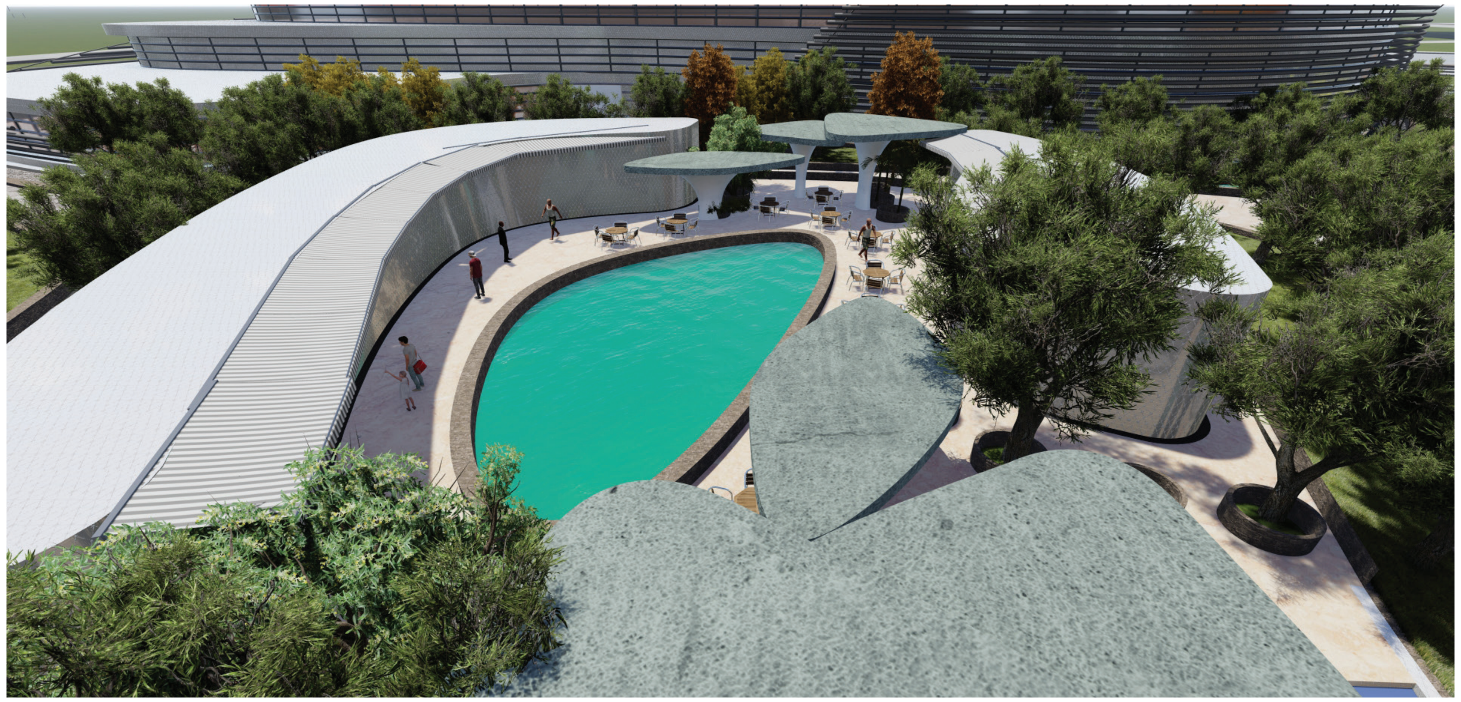


Sensory



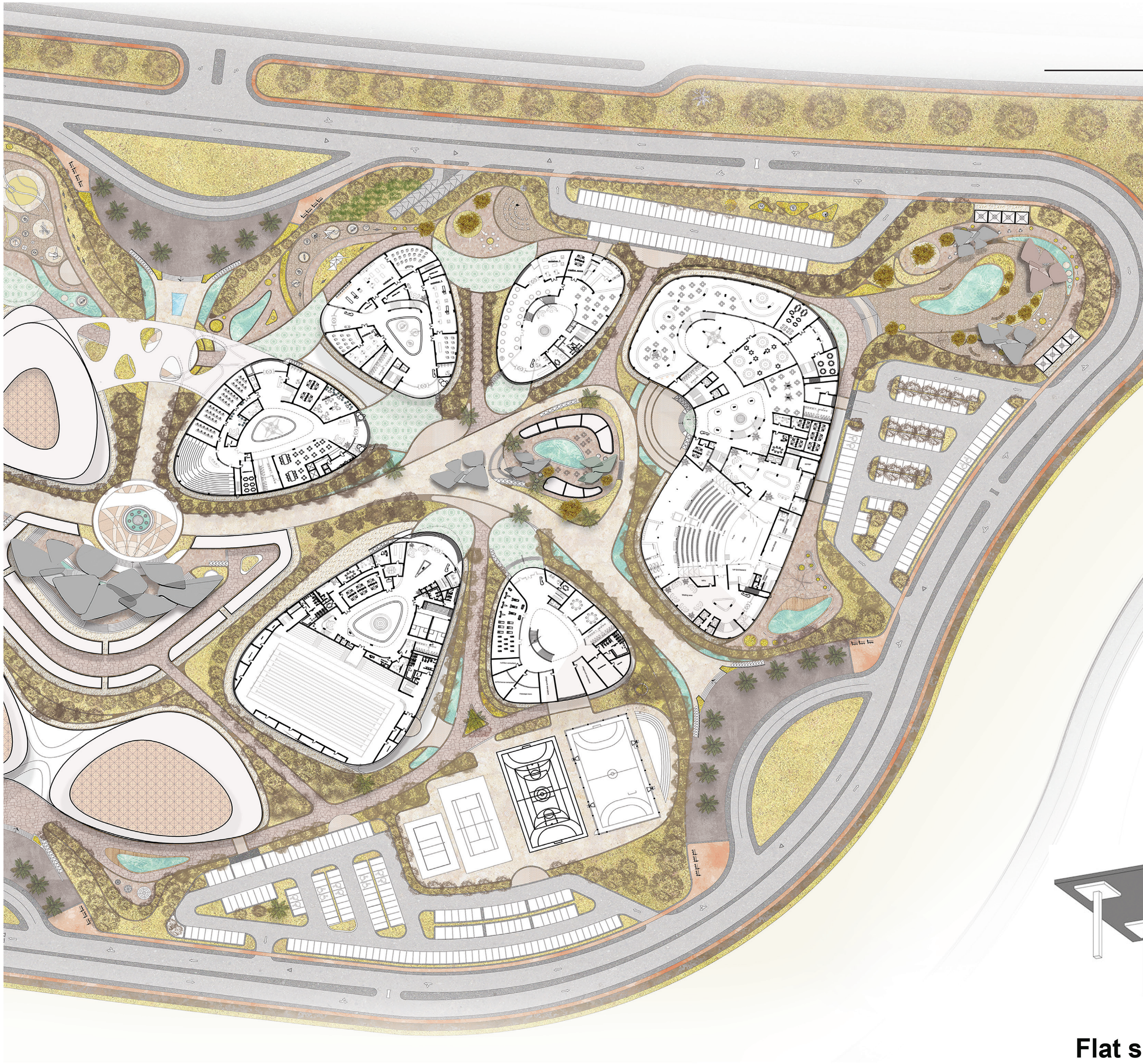
Reflections
Happy city Piller:
 Choosing a site adjacent to low carbon public transportation, non-motorized lanes and near livable part of the NAC
Quality of life context :
achieving pedestrian friendly project ,access to transportation, …) economic and political qualities and social qualities from the reflection

Choosing the civic center scale of regional to serve variety of people, cultures and levels. Making linkage to Cairo may foster the function of the civic center

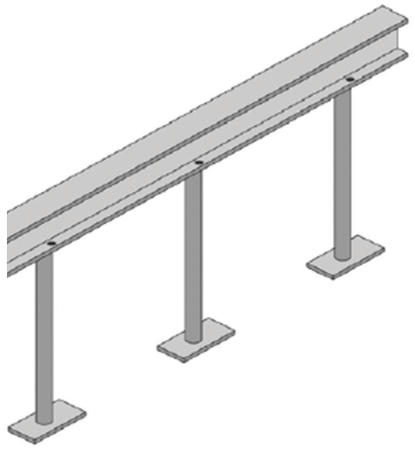


MASTER PLAN

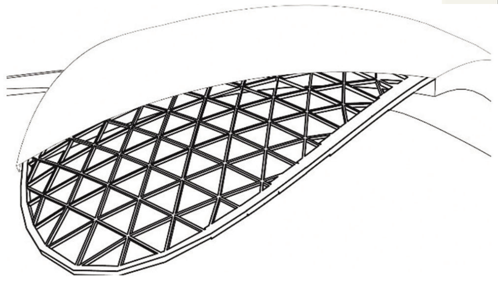
DETAILED ZONE

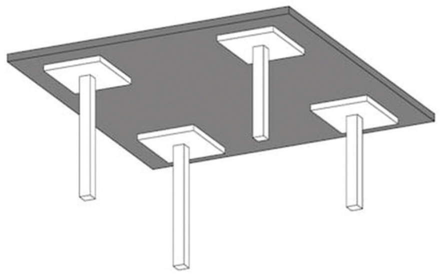


STRUCTURE SYSTEM USED

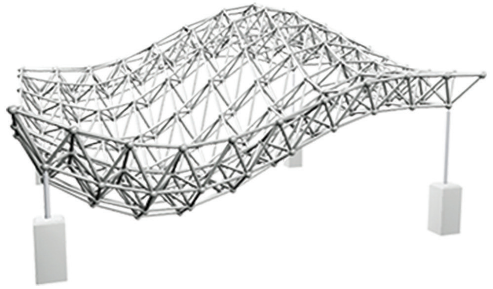


Steel structure



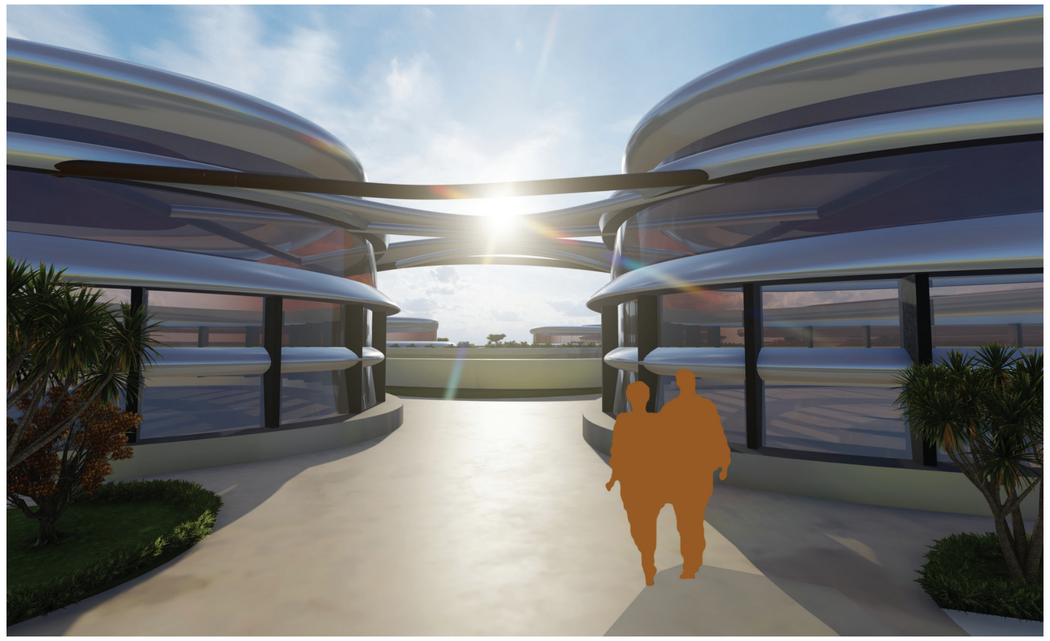


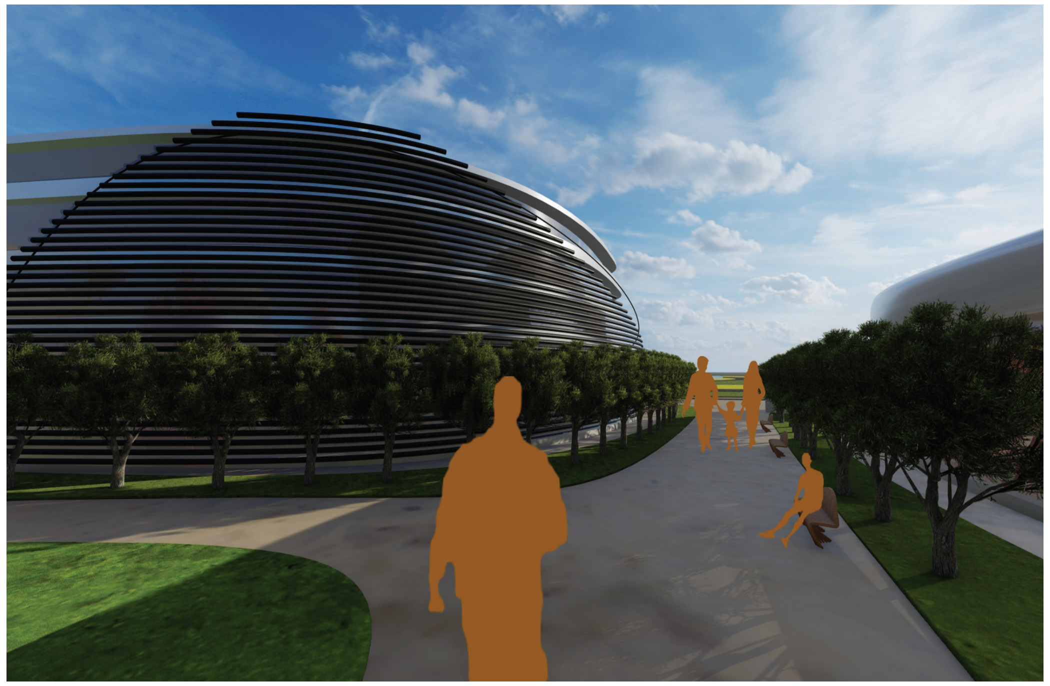
Flat slab
max span: 8-9 meter

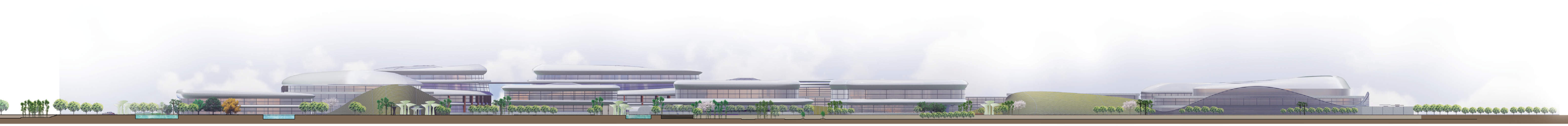


Shell structure

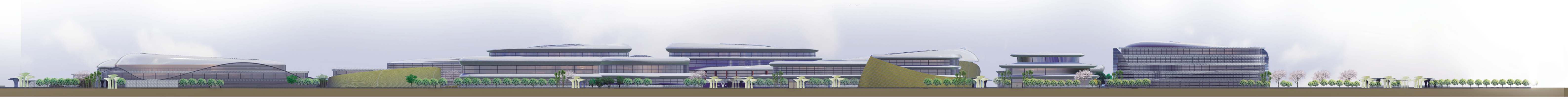
VISUALIZATIONS







Section Elevation C-C 1:500



Northern Elevation 1:500

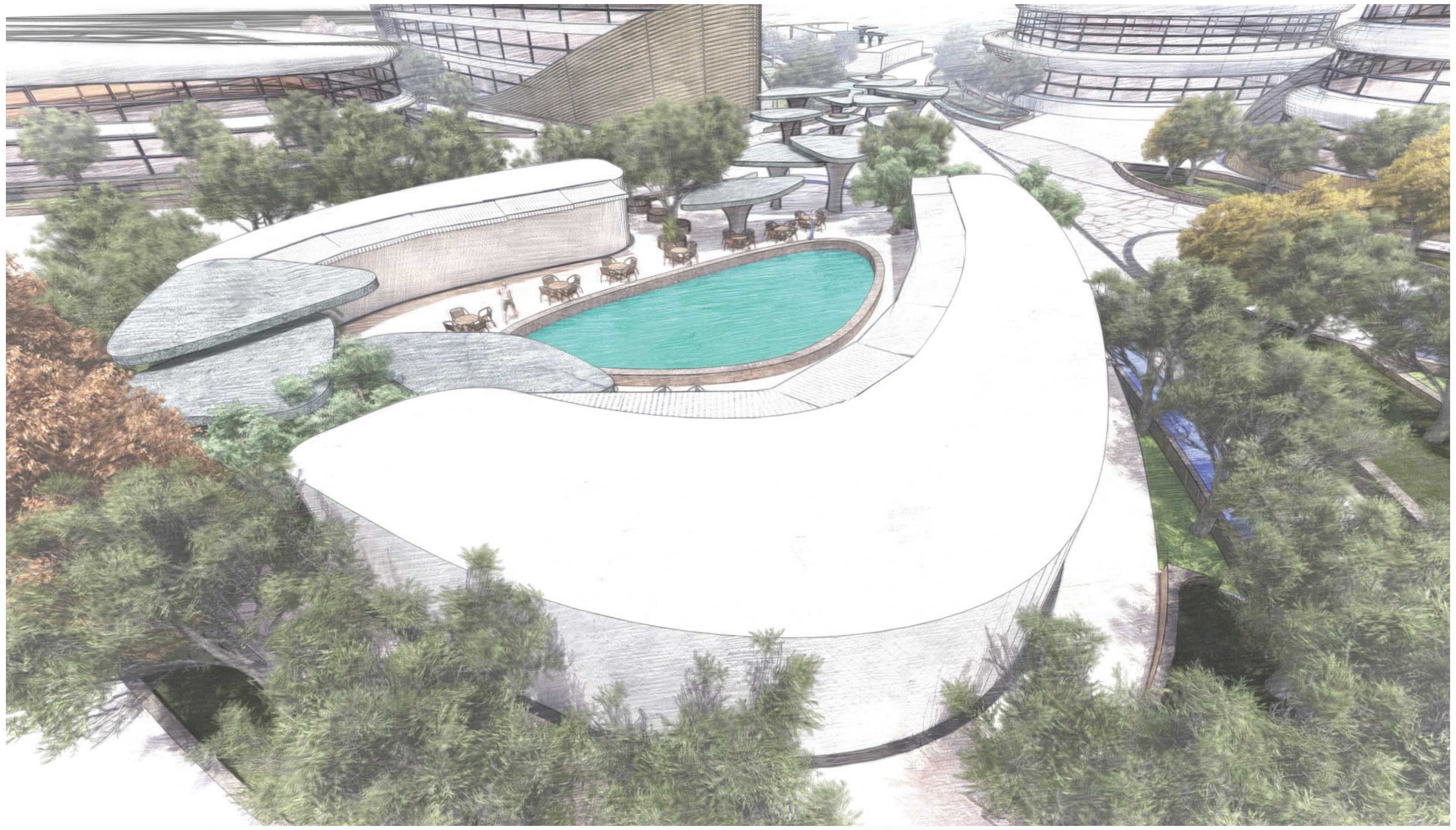
INSPIRATION

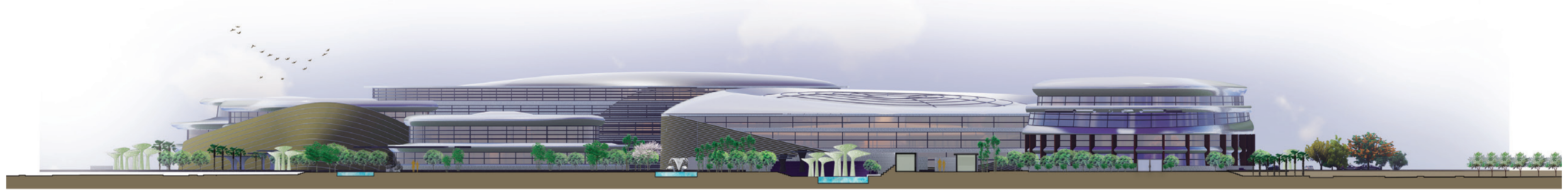
-the futuristic design of the New Admistration to be a fourth generation city

-breaking the boundaries between modern and traditional

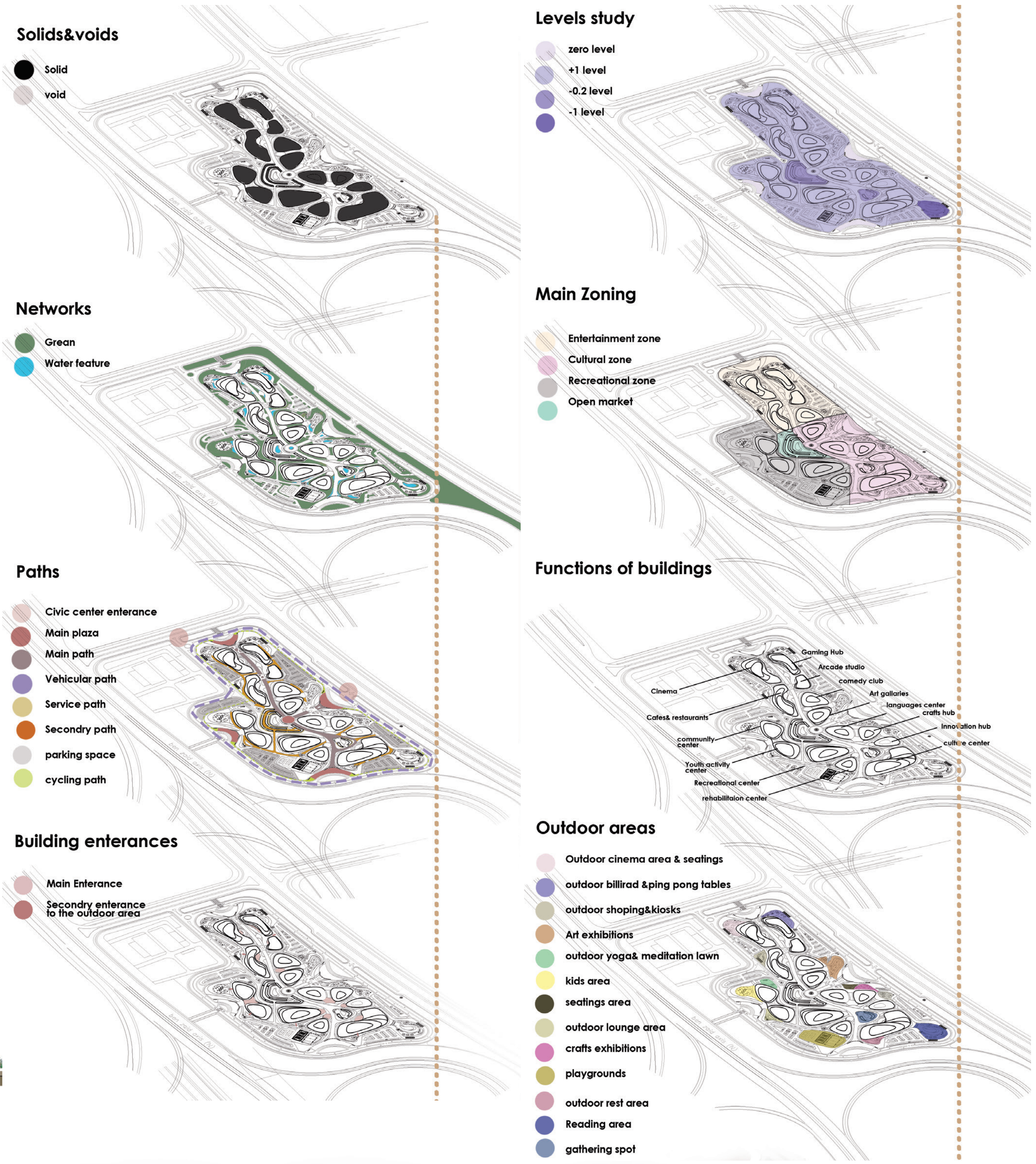
Keywords:

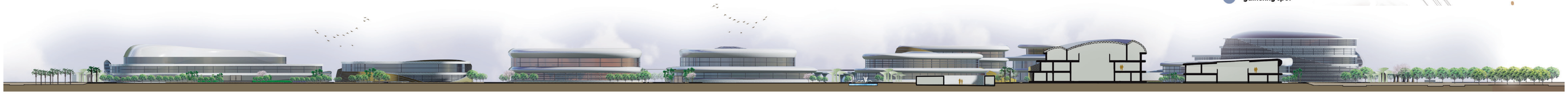
AGORA BRING PEOPLE TOGETHER   BREAKING BOUNDRIES   LINKING TWO CITIES



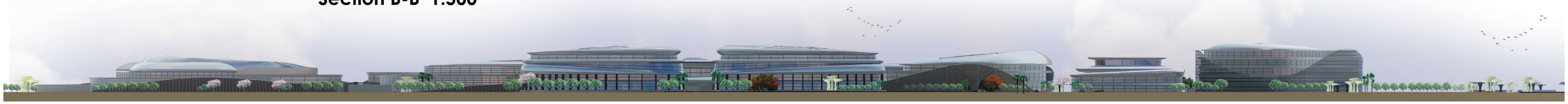


Section A-A 1:500





Section B-B 1:500



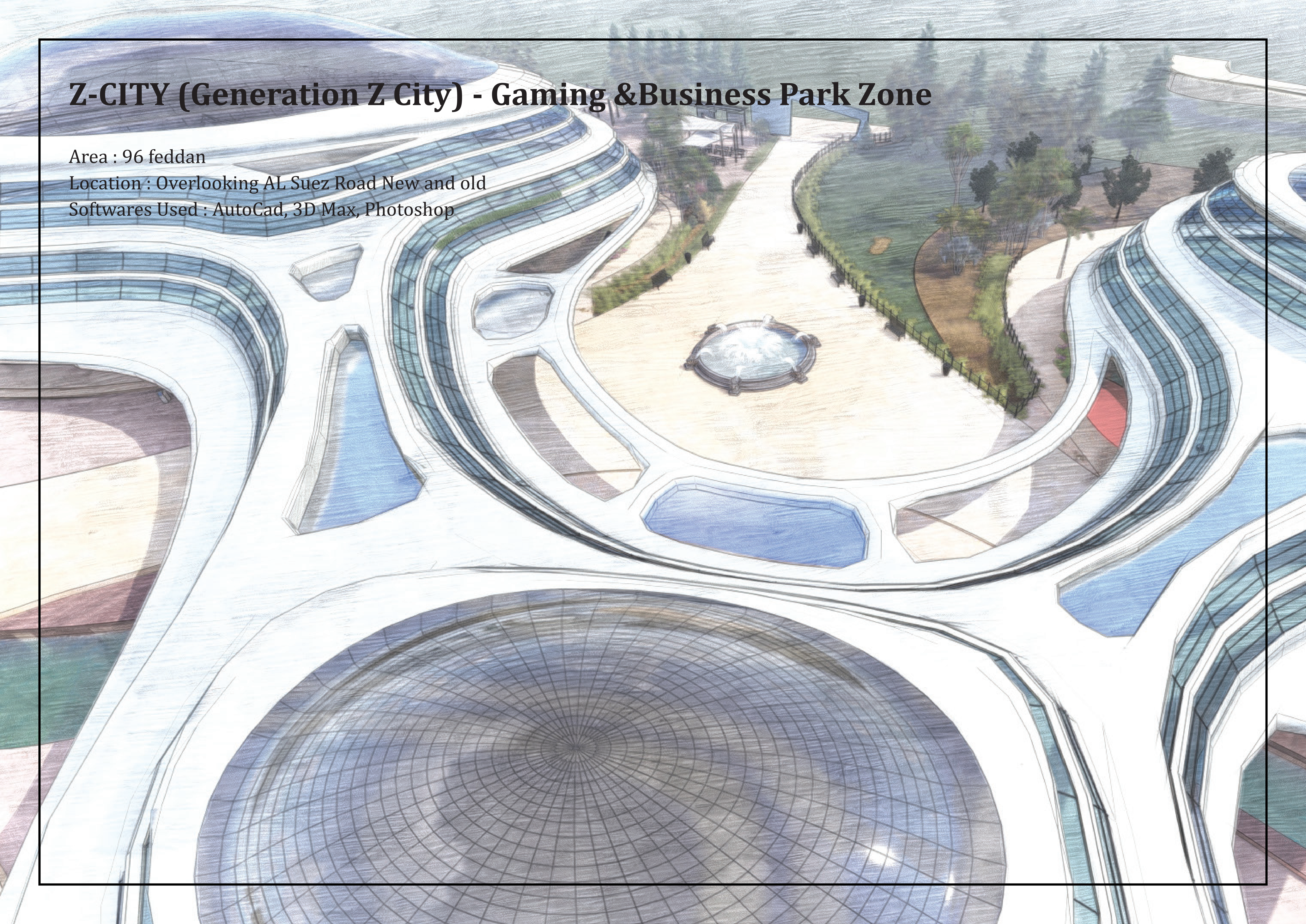
Sourthern Elevation 1:500

Z-CITY (Generation Z City) - Gaming &Business Park Zone

Area : 96 feddan

Location : Overlooking AL Suez Road New and old

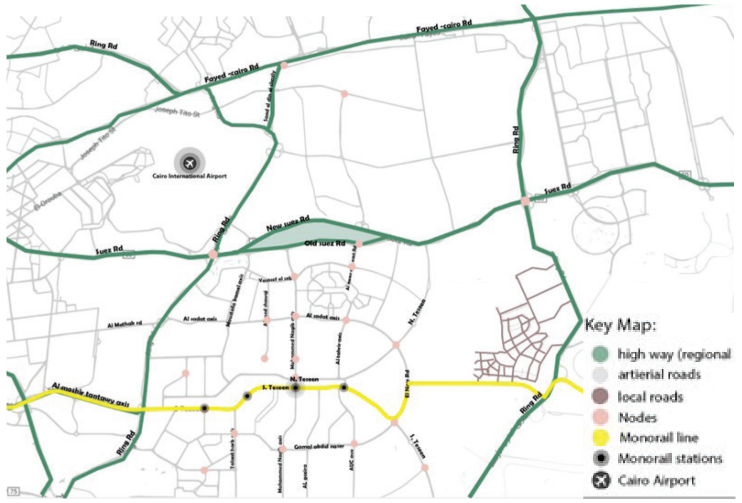
Softwares Used : AutoCad, 3D Max, Photoshop



LOCATION

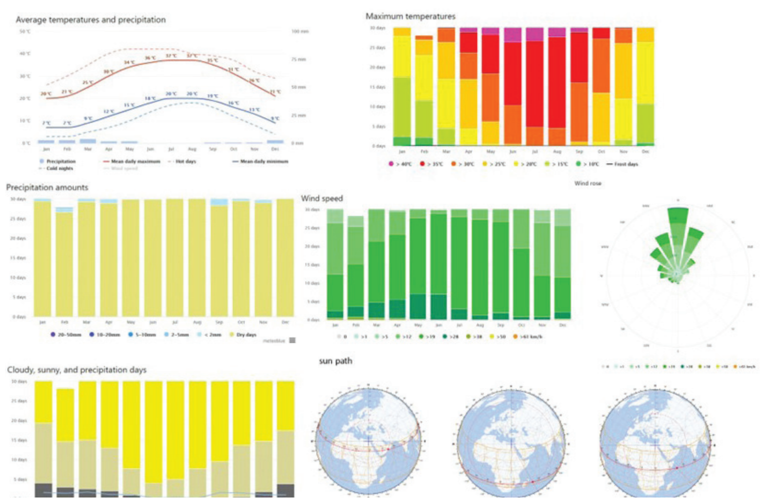
Between the New AL suez Road and the old one

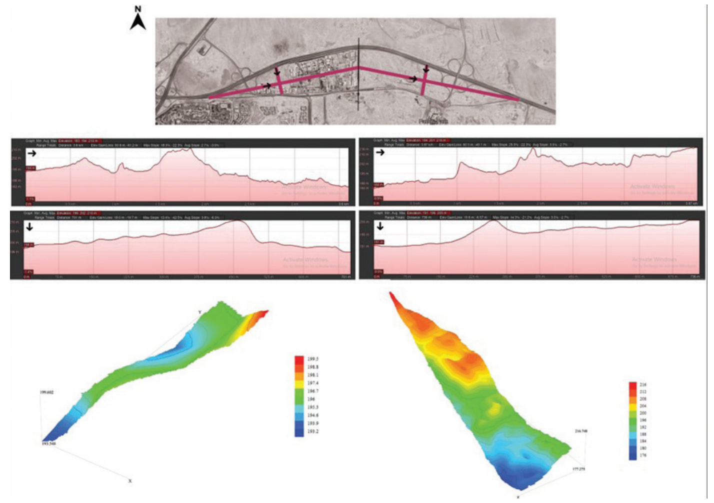
MACRO HIERARCHY



MICRO HIERARCHY

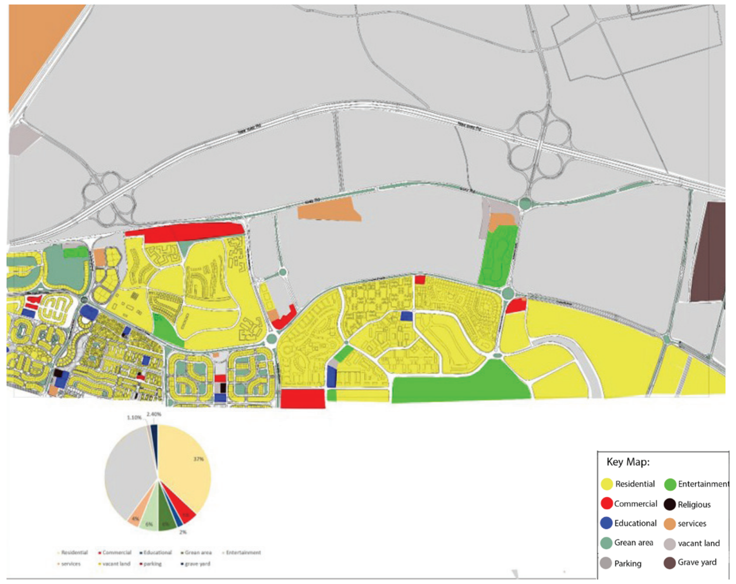
SITE ANALYSIS





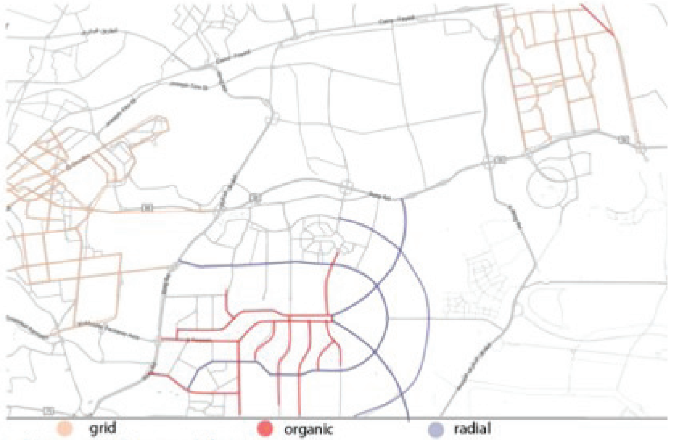
Average temperature ranges from 14- 29c (14 is average minimum. And 29 is average maximum) Through the year.
Moderate and gentle breeze. 19 kilometres per hour average. Mostly from north direction.
A notable land contour Which can either be Utilised or cut and filled

LANDUSE

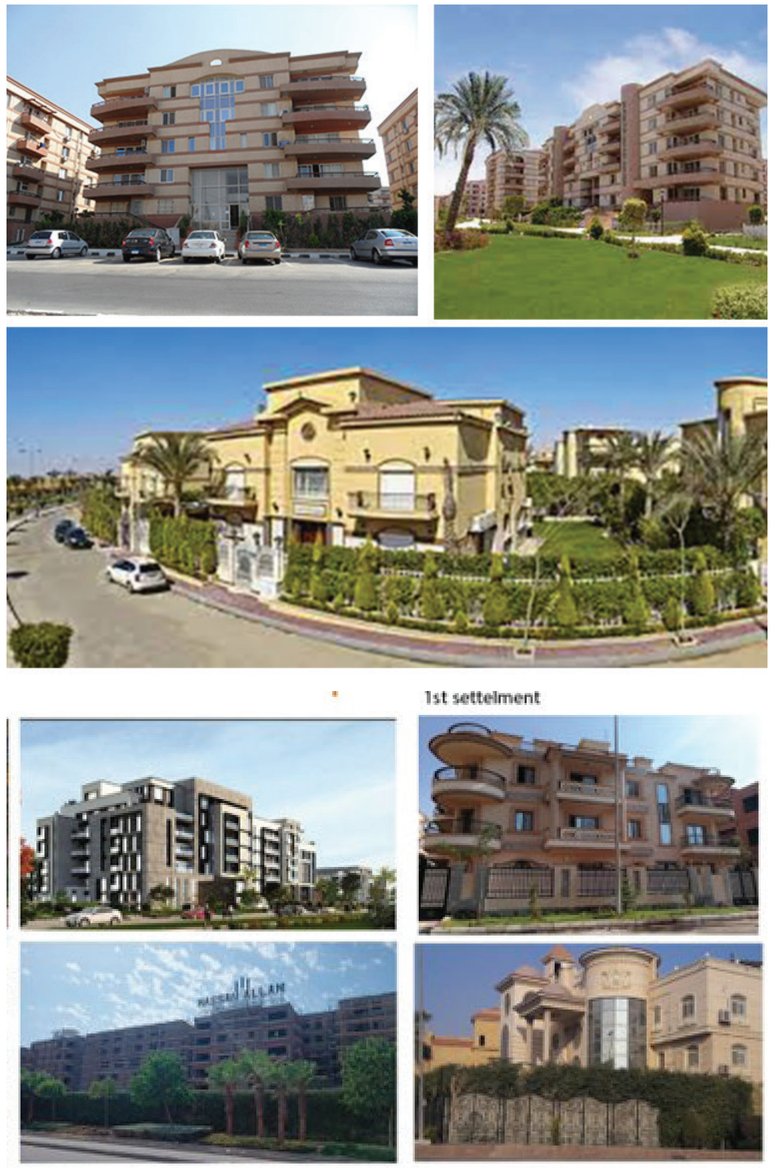


MICRO TRAFFIC

MICRO TRAFFIC



ARCHITECTURE STYLE



CONCLUSION

_ the site is surrounded with 2 High way roads that are vital and joined to the suez road

_it shows the accessibility of the site and the importance of the project facades

_the distance between our site and the nearest monorail station is 7 km

_there is no bus stops or metro station or any means of transportation, the site is near cairo airport by 5 km (15 min)

_walkability of the site is rare , there should be a lane for droping off

-has a low population density compared to famous Cairo districts which results in low traffic jam.

-overlooks masr / suez st the new and the old which result in fine accessibility

-has muliple access routs which connect it to the capital and other governorates.(ring road ,Ain El-sokhna road and cairo-suez road)

-near an airport by 3 km .

-availability of public services

-high land value due to its proximit distance to many important compounds and services like al rahab and swan lake

-The prices of some units in the city is very high.

-High cost of living.

-Increasing traffic level in some important streets whereas the suez st. is a high way road

-Its considered far from some important areas in Cairo itself.and 5th settelments compounds

-Some infrastructure problems (water cuts).

-City legibility: Building design does not have a specific architectural style.

the site needs a private car to be reached due to high ways around it

-the high cost of the units may reach 10 million and that makes new cairo not many people's first choice .

-potential car accidents

-noise from cars speed

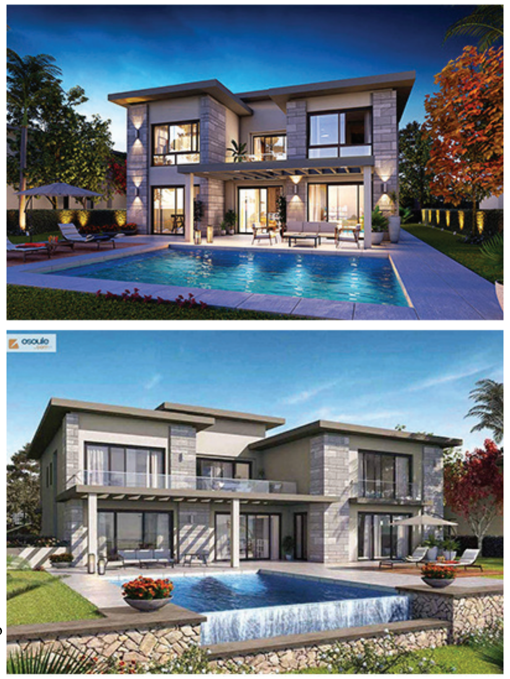
-high potential theats of prices competition and real state competition between nearby cities

-large parcels of lands that are underutilized.

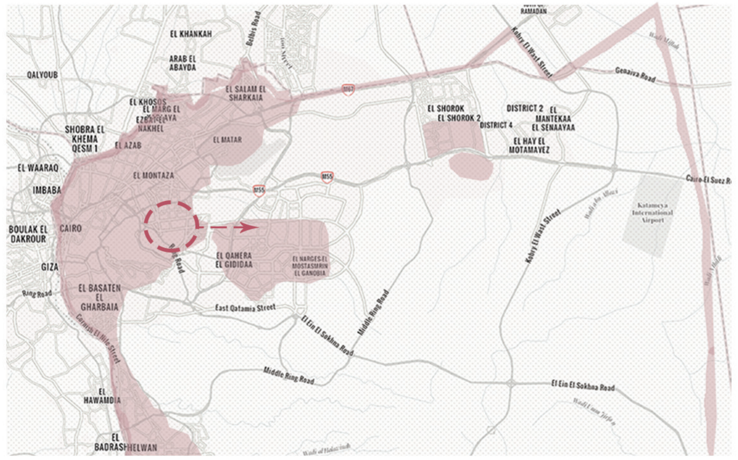
-Expandable city

-Maximise the site's sustainability potential

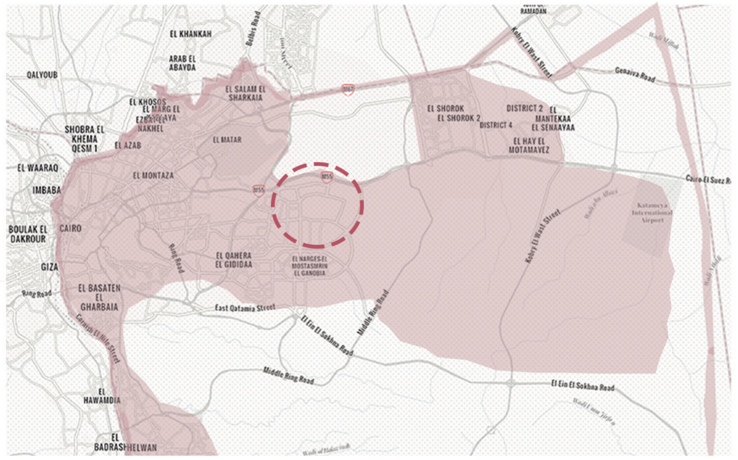
-Away from high speed life in down town cairo



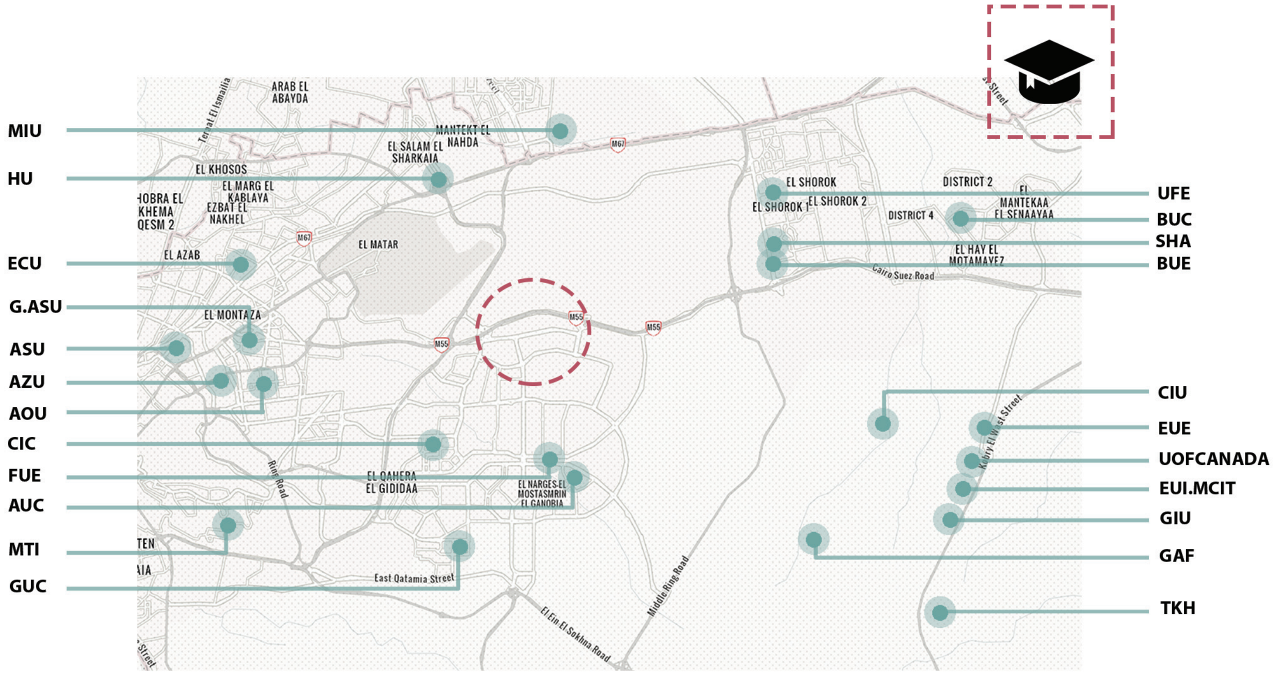
Zee City



Gen X & Millennials Cairo Center



Gen Z Cairo Center



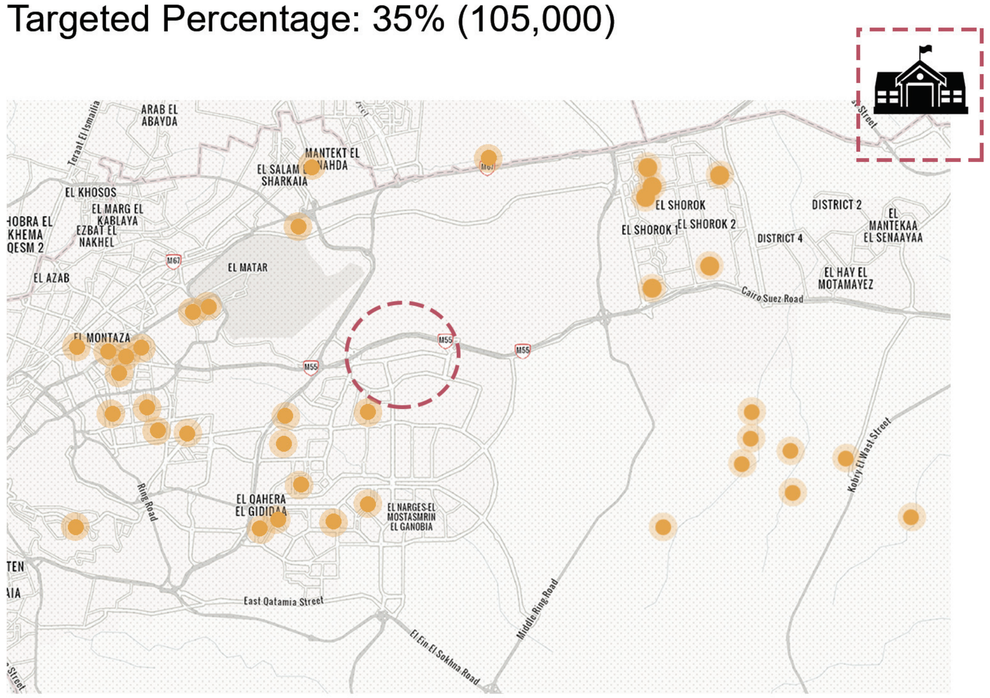
Distance: 25 km
Time: 30 m
No. Of Universities: 30
Avg. No. Of Students/University: 10,000 student
Total No Of Students:300,000 student
Targeted Percentage: 35% (105,000)

What is Gen Z ?

It’s those born between the mid-1990s and early 2010s, the demographic cohort succeeding Millennials and preceding Generation Alpha.
The most diverse generation so far and the first generation to be born into a fully digital world.

Characteristics

- Digital Natives
- Mental Health Matters
- Promoting eco-efforts
- Financially-Minded
- Seeking independence
- Competitive-Focused
- Always in changes
- Most Educated Gen.



Distance: 25 km
Time: 30 m
No. Of High Schools: 23
Avg. No. Of Students/school: 495
Total No Of Students:11385
Targeted Percentage: 35% (4000)

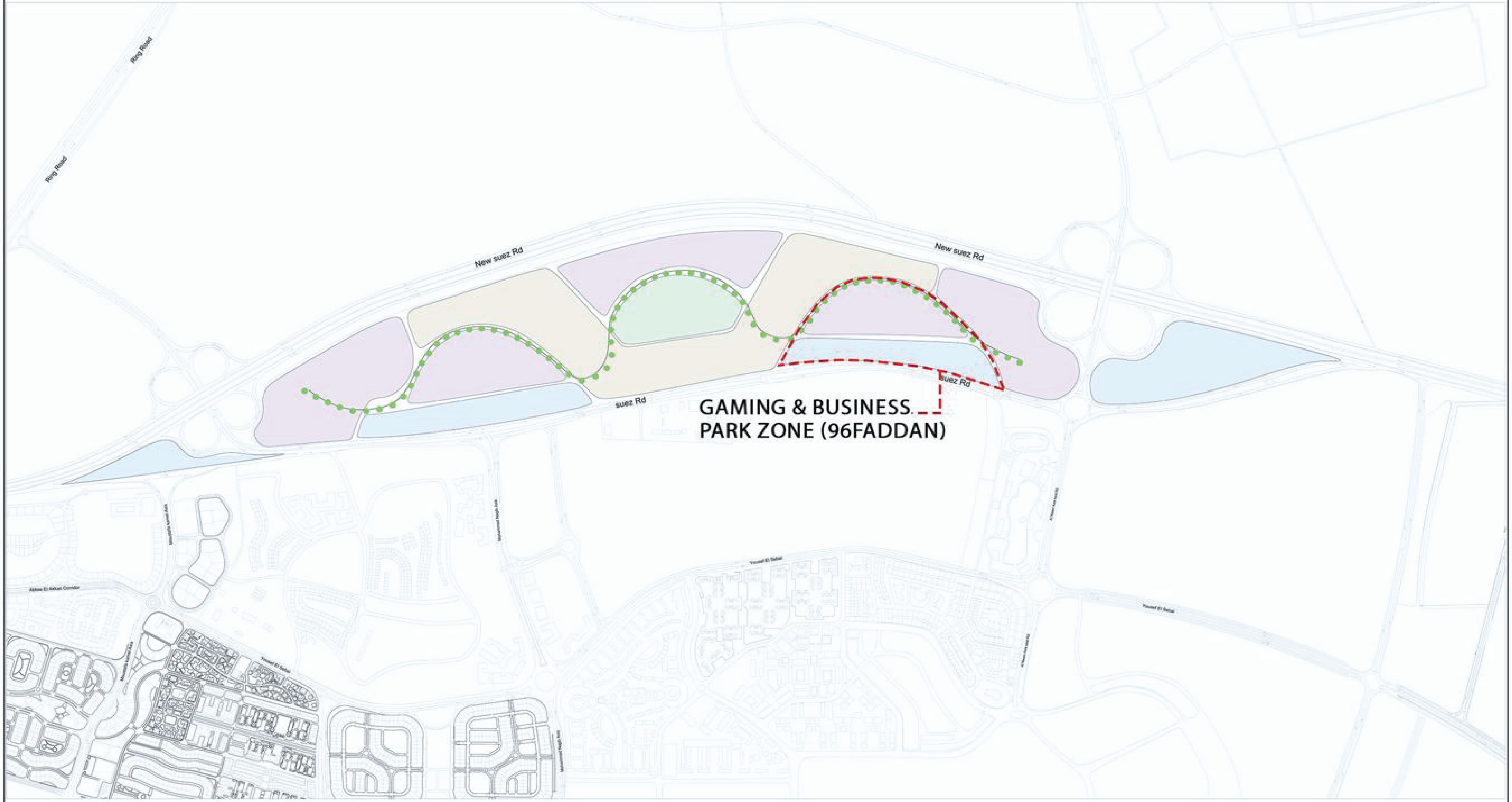
Vision

Our vision is mainly based on Gen Z, A place to attract the youth, to be their paradise where they beat their challanges, Helping them to fulfill their passion and use their power at the right place. To discover, to explore, to learn and even to entertain themselves.

Integrating their skill with the smart and sustainable city features and assuring their needs from live, learn, work to have fun.

Master Plan

1:5000



Entertainment

Mixed Use

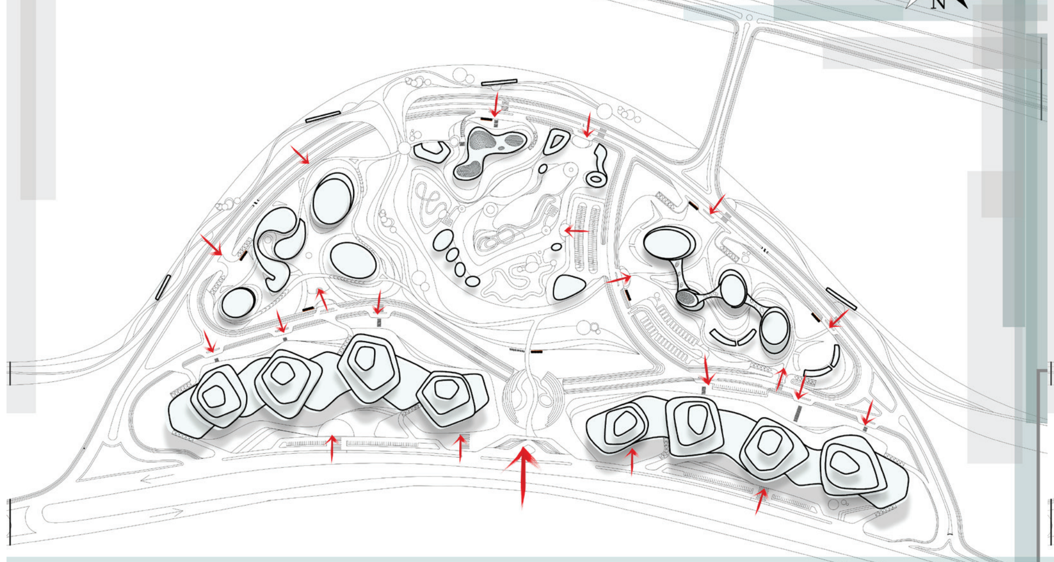
Residential

Landscape

GAMING AND BUSINESS PARK

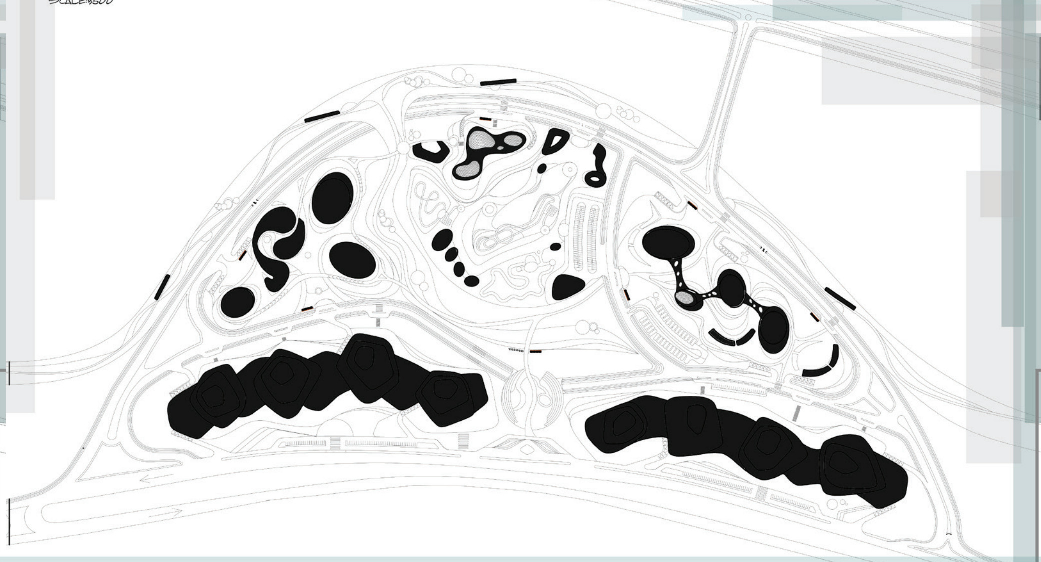
ENTRANCES-

SCALE:3500



SOLID AND VOID ANALYSIS

SCALE:3500

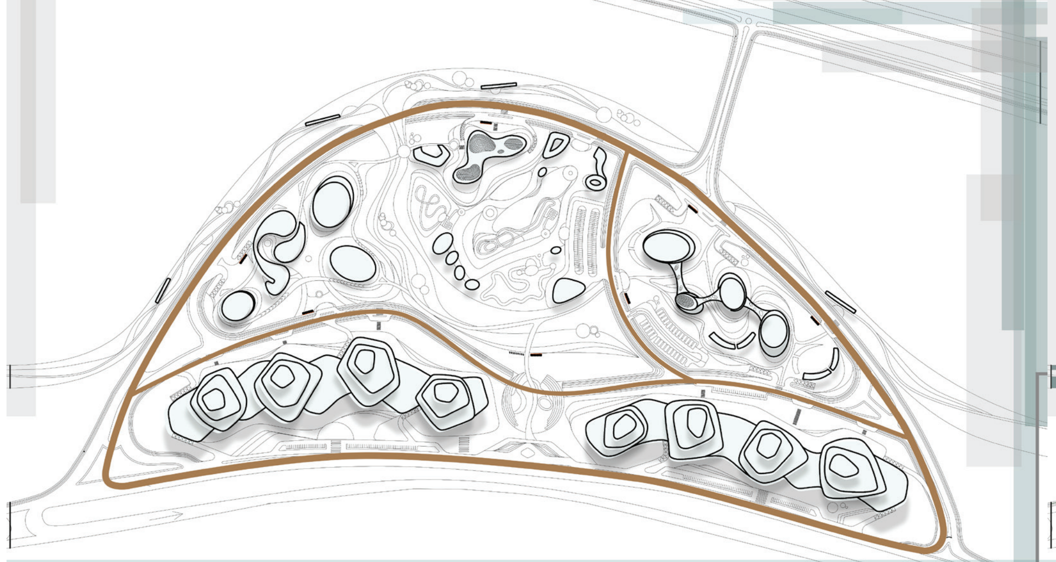


PEDESTRIAN NETWORK

SCALE:3500

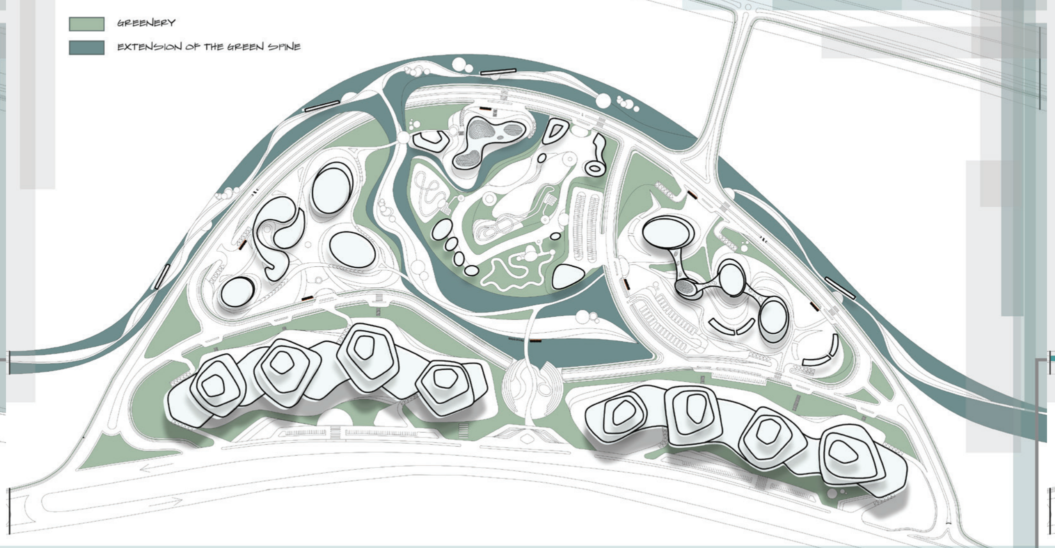
VEHICULAR NETWORK

SCALE:3500



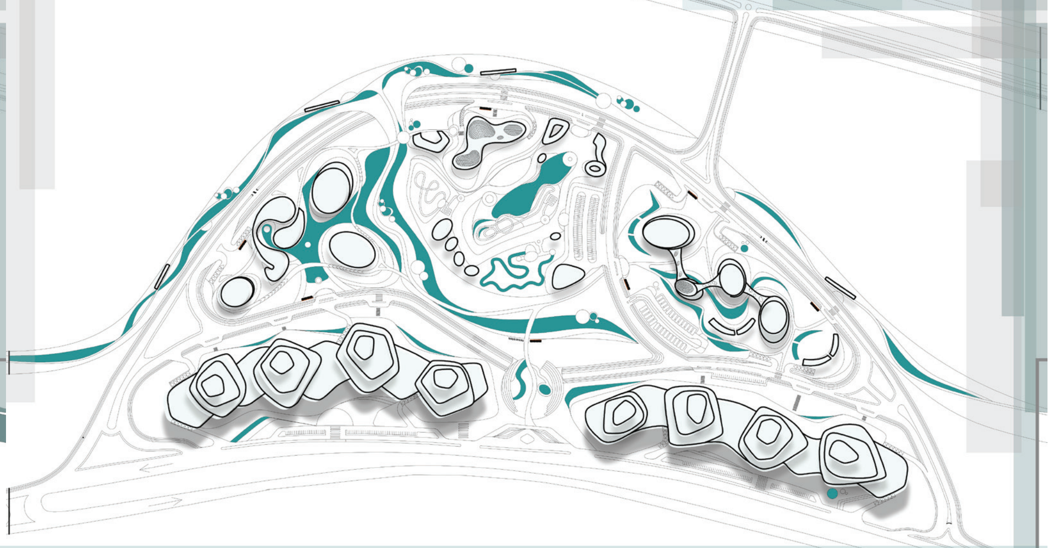
GREEN NETWORK

SCALE:3500



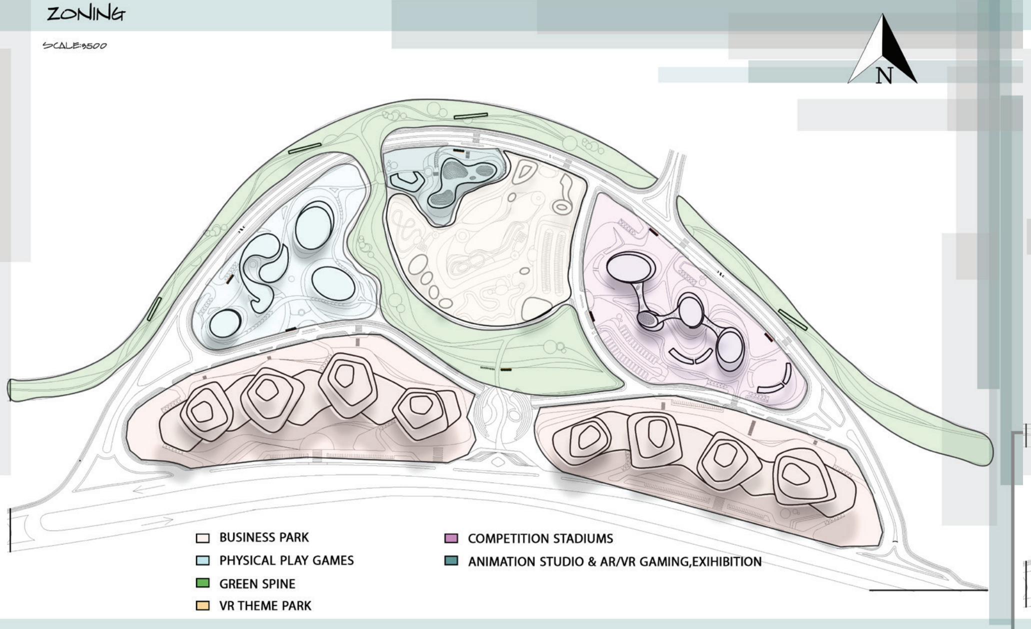
WATER NETWORK

SCALE:3500



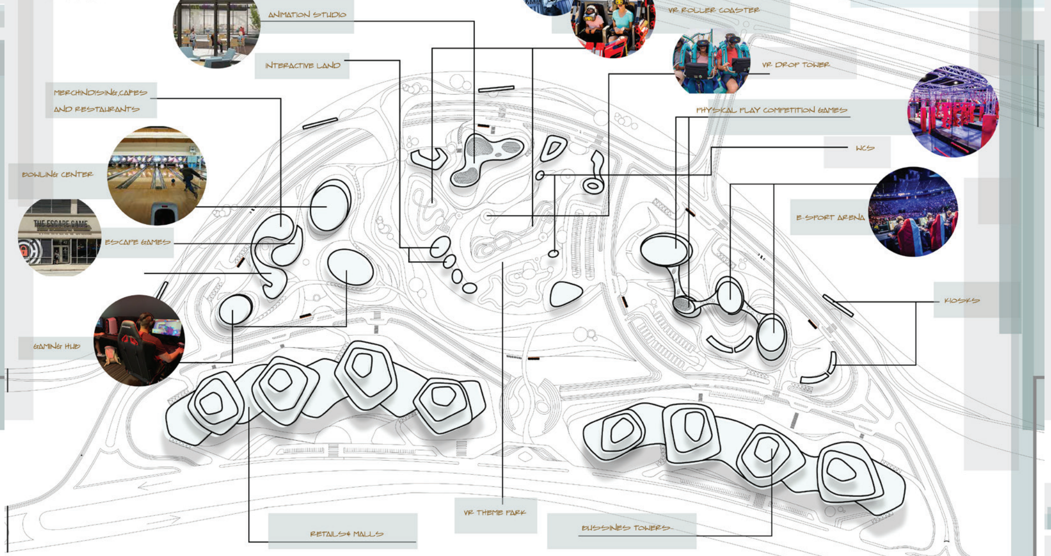
ZONING

SCALE:3500



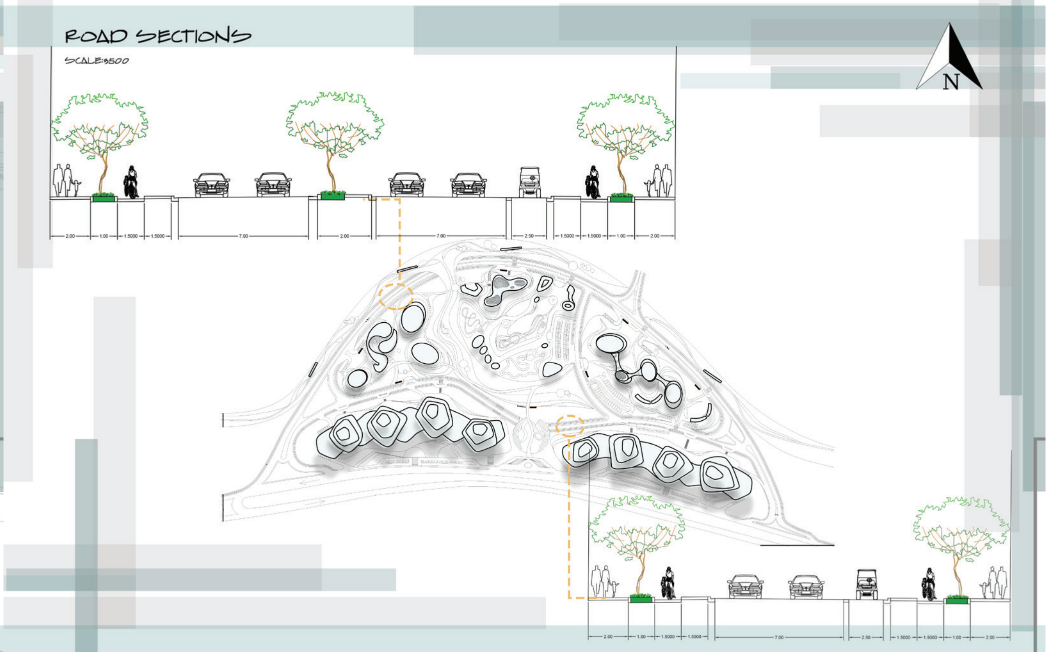
ACTIVTIES

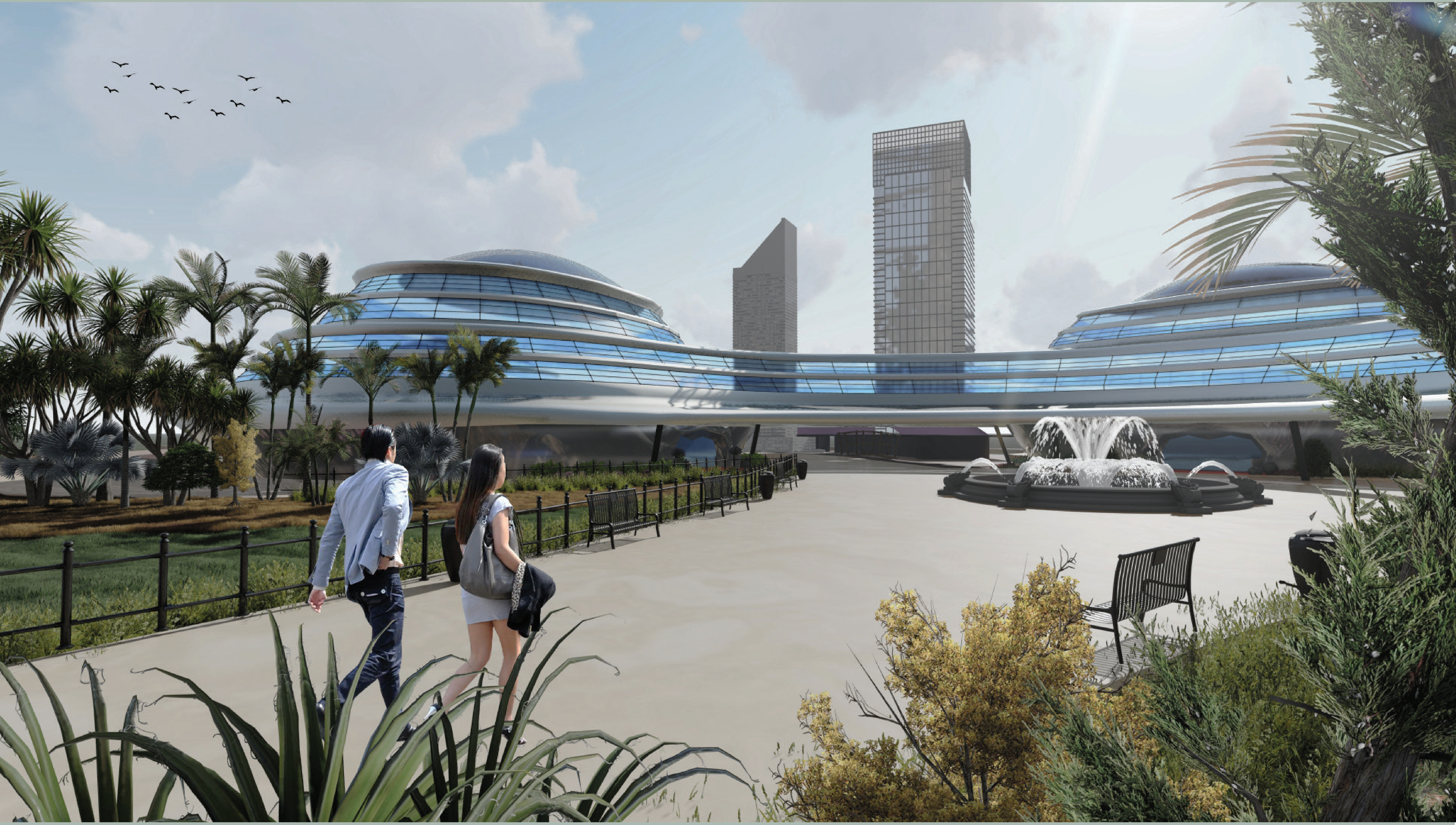
SCALE:3500



ROAD SECTIONS

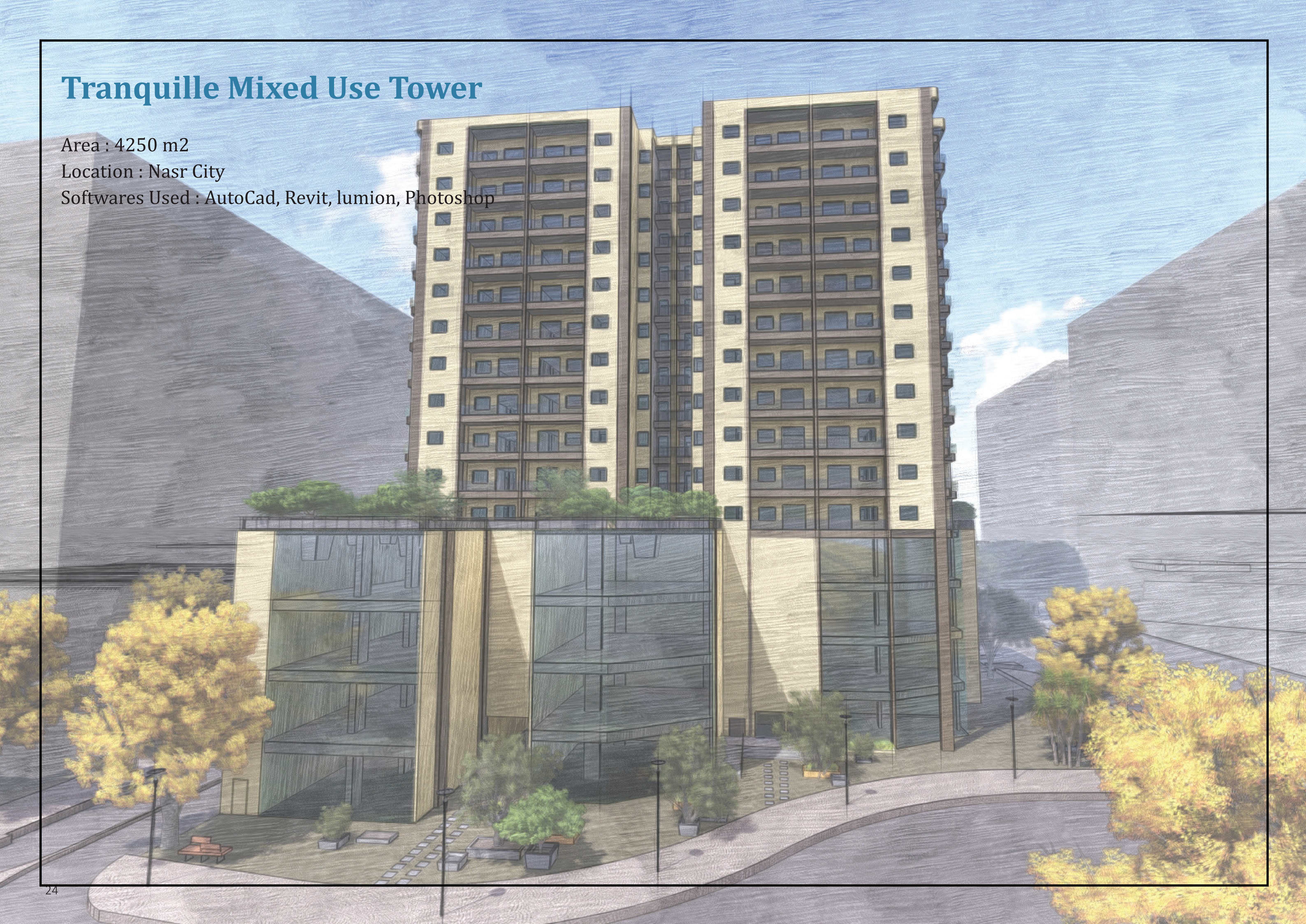
SCALE:3500





Tranquille Mixed Use Tower

Area : 4250 m2
Location : Nasr City
Softwares Used : AutoCad, Revit, lumion, Photoshop



RESIDENTIAL PLAN

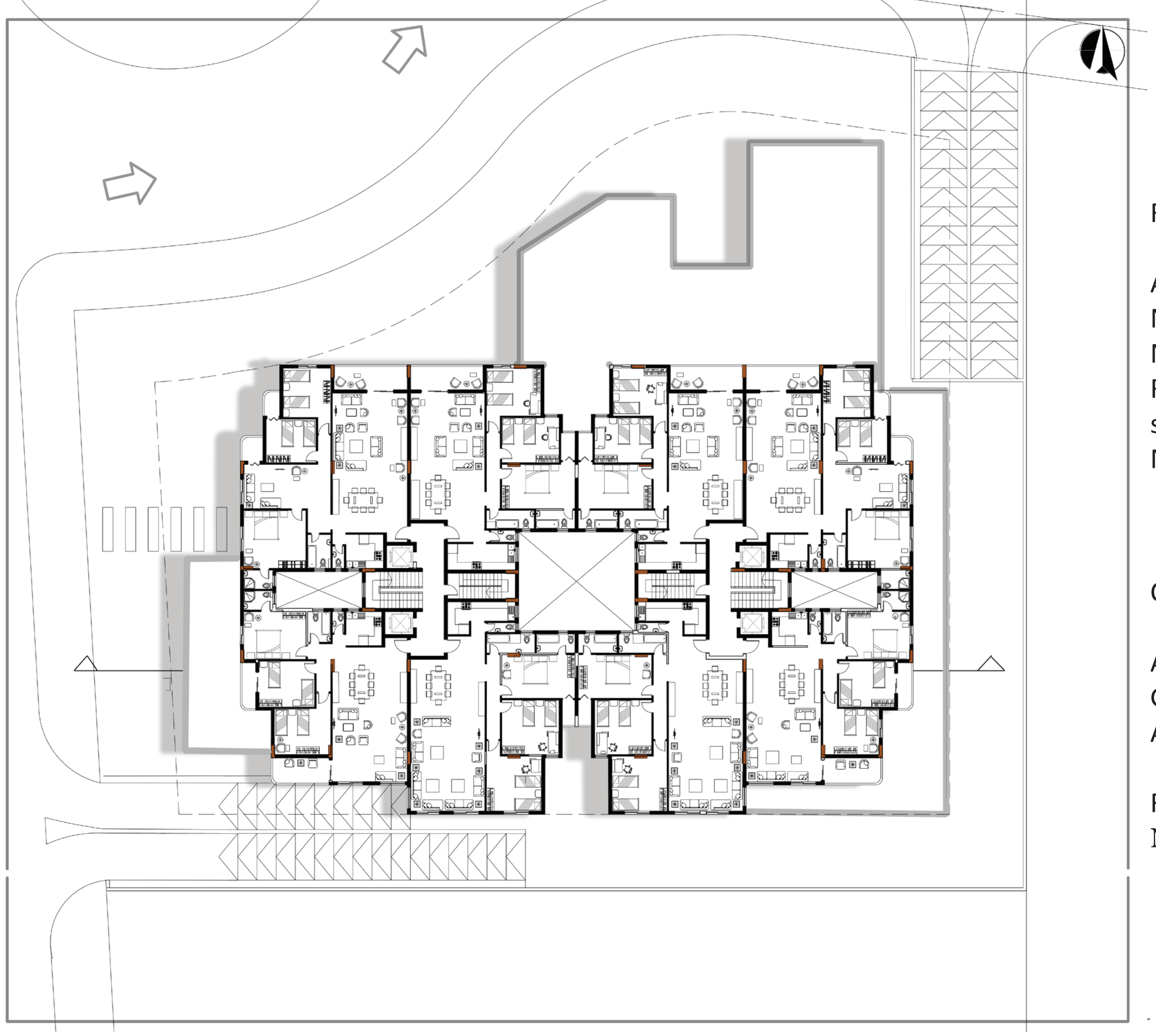
Calculations :

area of floor=1638.5m2
no of floors = 10
height =3.5
total build up area of project =30000
max residential area =18000
area of the the residential = 10*1638.5
(59.4%)

RESIDENTIALCORE STAIRS
CALCULATIONS :

H = 350 Cm
NO OF STEPS = 350/16 = 22
2R+G=60-62
2*16+G=60 G=28
2*16+G=62 G=30
so: G=30 , R=16

total horizontal circulation in 1
floor=178.7m2
total horizontal circulation in all the 8
floors =1427.2m2



RESIDENTIAL GARAGE PLAN (-3) CALCULATIONS:

AREA OF THE APP. = 190 m2 and 175 m3
NO OF APP. IN ONE FLOOR = 8
NO OF FLOORS = 8
FROM THE CODE WE NEED 1 car for each appartment
so:
MIN NO Of CARS IN RESIDENTIAL PLAN = 1*8*8 = 64 CAR

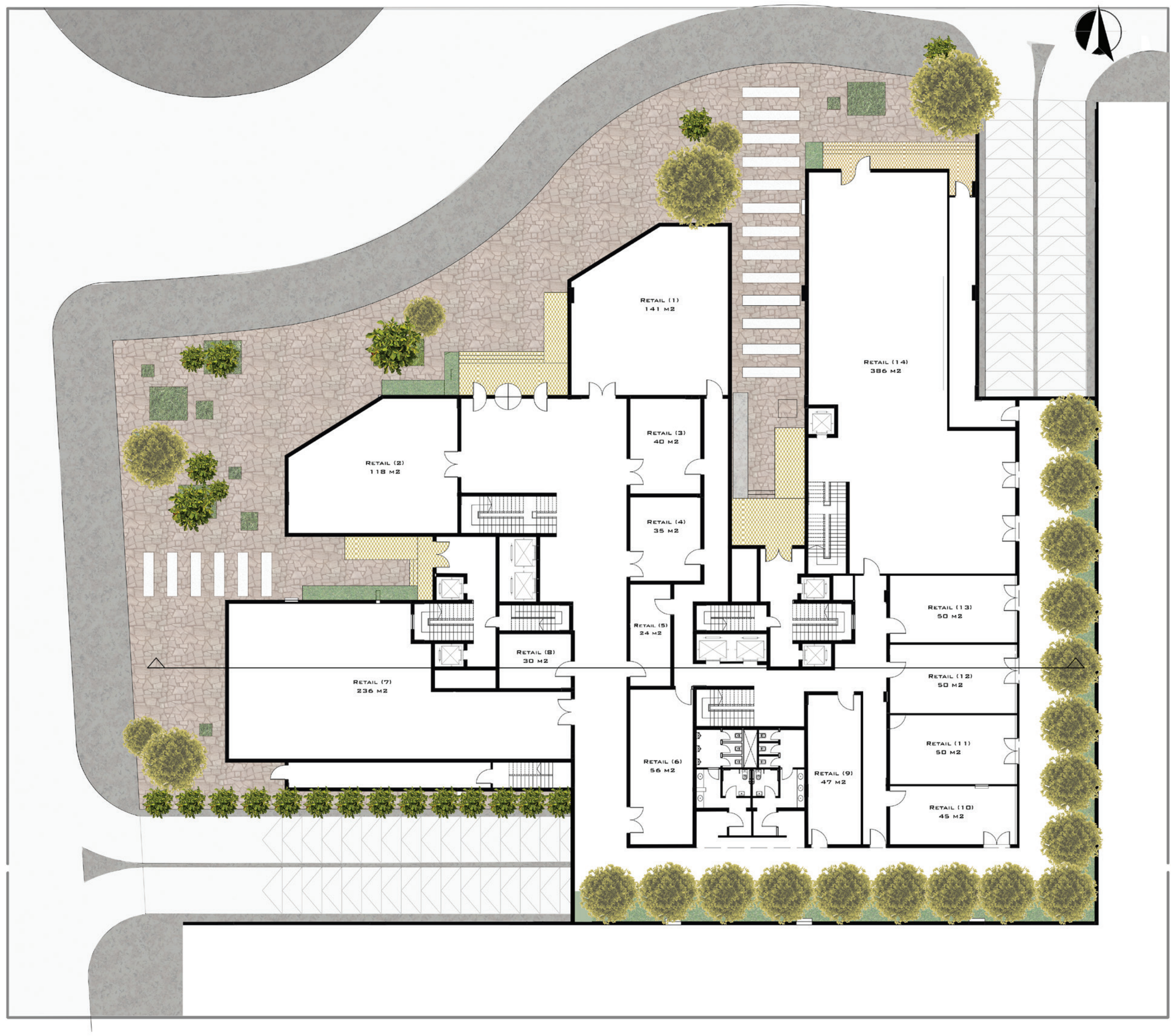
COMMERIAL GARAGE PLANS (-1,-2) CALCULATIONS:

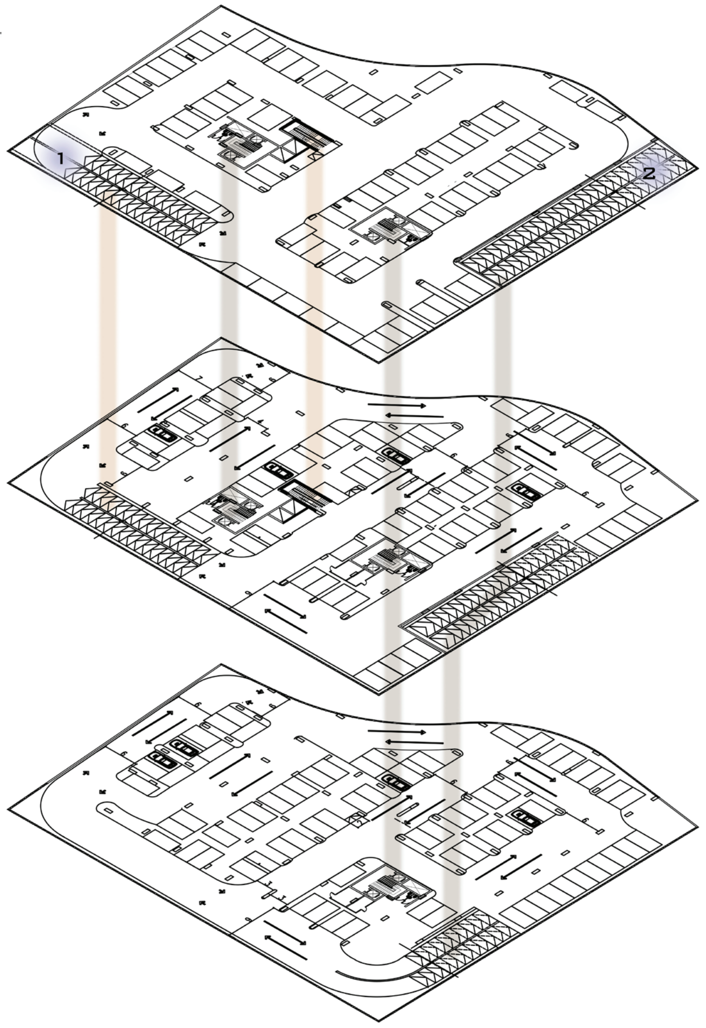
AREA OF GROUND FLOOR(COMMERIAL USE)=50% OF THE LAND AREA
GROUND AND FIRST ARE COMMERIAL USES
AREA OF COMMERIAL FLOORS subtracting ducts and cores=5000-(20+20+70.5+83.2)
= 4889.5m2
FROM THE CODE WE NEED 3 CARS WITH 100m2 USE AREA
NO OF CARS THAT NEEDED =4889/33=148 CAR

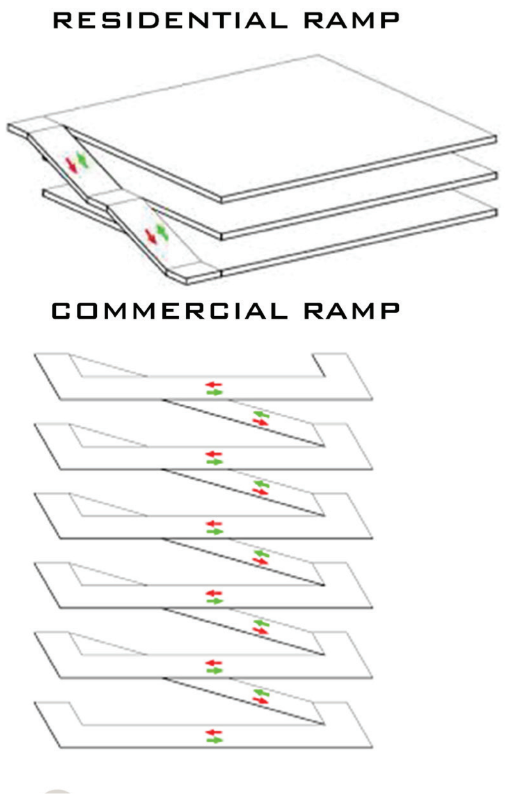
MASTER PLAN (COMMERCIAL)

Calculations :

area of 1 floor =2139m2
height =4.5
no of floors =4
circulation area=215m2 (
retails area=1318.4m2
services=220m2
stairs& lifts= 150m2
FAR CALCULATIONS
commerial area in the building =
8556m2 (28.5%)
residential area in the building
=16700m2 (56%)

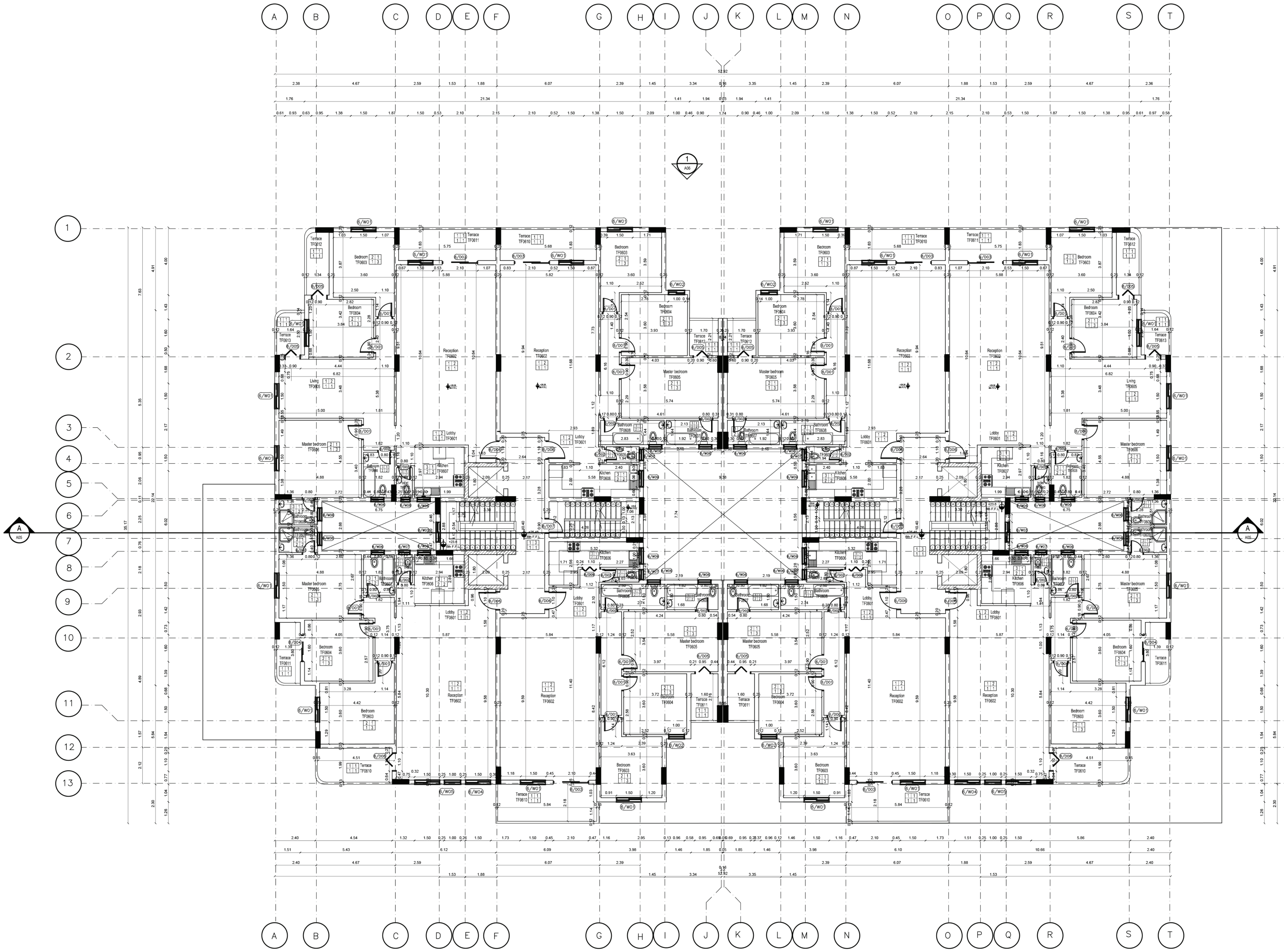






RESIDENTIAL CORE AND RAMP

COMMERCIAL CORE AND RAMP



1 TYPICAL FLOOR PLAN

A03

SCALE 1:100

1:100 — 0 1 2 3 4 5 METER

NORTH

3RD YEAR
AIN SHAMS UNIVERISTY
DEPARTMENT OF URBAN PLANNING

WORKING DRAWINGS COURSE

DOOR SCHEDULE

TYPE	HEIGHT	WIDTH	COUNT	NO
wood hinged door	220	80	240	D1
wood hinged door	220	70	240	D2
glass sliding door	220	210	60	D3
glass sliding door	220	160	20	D4
bifold glass door	220	85	80	D5
wood hinged door	220	110	40	D6
Stainless Steel fire door	220	80	20	D7
bifold glass door	220	110	20	D8
wood accordion door	220	110	20	D9

WINDOW SCHEDULE

TYPE	HEIGHT	WIDTH	COUNT	NO
Aluminum sliding window	130	150	880	W1
Aluminum casement window	130	100	160	W2
Aluminum sliding window	100	120	20	W3
Aluminum sliding window	160	150	40	W4
aluminum fixed window	160	100	20	W5
aluminum awning windows	100	100	800	W6
aluminum awning windows	100	70	240	W7
aluminum awning windows	100	57	20	W8
aluminum Casement Window	100	100	40	W9

FINISHING SCHEDULES

F	C
W	S

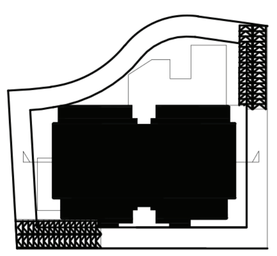
NO	FLOORING	
1	carrara marble squares	40*40*2
2	Parquet floor Beech wood	24*5*2
3	Ceramic tiles	30*30*9
4	Mosaic tiles	20*20*2

NO	SKIRTING	
1	Carrara marble skirting	40*20*2
2	Ceramic tiles skirting	30*30*9
3	mosky Wood skirting	20*20*2

NO	WALL	
1	plastic paint	
2	Ceramic tiles	20*20*8
3	Curtain wall	

NO	CEILING	
1	plastic paint	
2	Gypsum Board	60*60
3	Gypsum Plaster 2 cm	

KEY PLAN



REVISIONS

Rev.	DESCRIPTION	DATE	APR.

PROJECT NO. :

SCALE: 1:100

DESIGNED BY: Amira Mostafa Abdelmoneem

DWG BY: Amira Mostafa Abdelmoneem

CODE: 1700296

CHECKED BY:

APPROVED BY:

DATE: 22 May 2021

PROJECT TITLE:

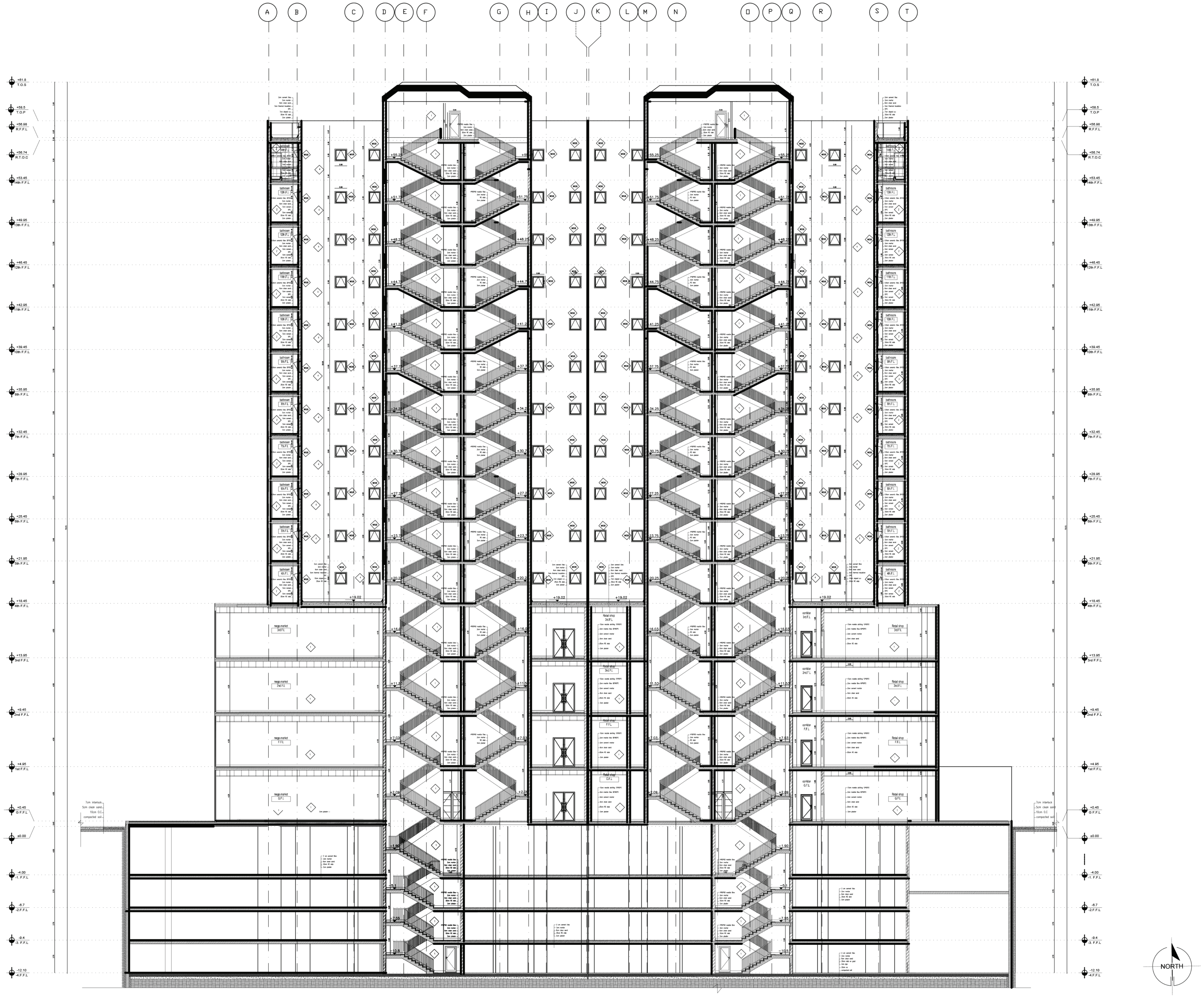
TYPICAL RESIDENTIAL FLOOR PLAN

DRAWING NAME:

MIXED USE TOWER

DRAWING REFERENCE NO.:

A101

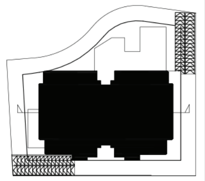


1 SECTION A-A
SCALE 1:100

3RD YEAR
AIN SHAMS UNIVERISTY
DEPARTMENT OF URBAN PLANNING

WORKING DRAWINGS COURSE

KEY PLAN



REVISIONS

Rev.	DESCRIPTION	DATE	APR.

PROJECT NO. :

SCALE: 1:100

DESIGNED BY: Amira Mostafa Abdelmoneem | DWG BY: Amira Mostafa Abdelmoneem

1700296

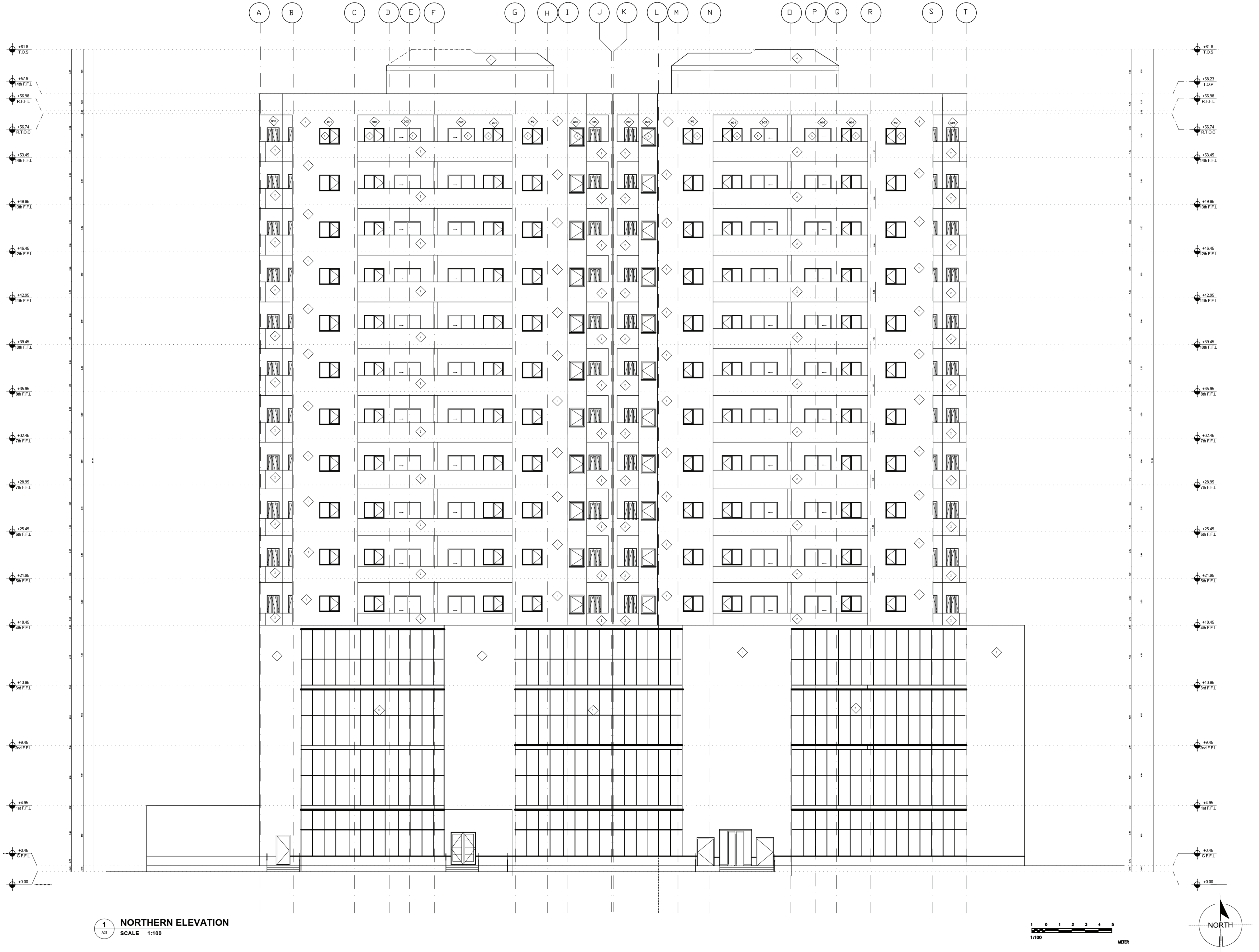
CHECKED BY: | APPROVED BY:

22 May 2021

PROJECT TITLE: MIXED USE TOWER

DRAWING NAME: SECTION A-A

DRAWING REFERENCE NO.: A101



1 A03 **NORTHERN ELEVATION**
SCALE 1:100

3RD YEAR
AIN SHAMS UNIVERSITY
DEPARTMENT OF URBAN PLANNING

WORKING DRAWINGS COURSE

DOOR SCHEDULE

TYPE	HEIGHT	WIDTH	COUNT	NO
wood hinged door	220	80	240	D1
wood hinged door	220	70	240	D2
glass sliding door	220	210	60	D3
glass sliding door	220	160	20	D4
bifold glass door	220	85	80	D5
wood hinged door	220	110	40	D6
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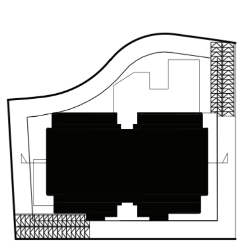
aluminum awning windows	100	100	800	W6
aluminum awning windows	100	70	240	W7
aluminum awning windows	100	57	20	W8
aluminum Casement Window	100	100	40	W9

FAÇADE FINISHES
1 exterior plasters
2 glass panals
3 roof tiles
4 alcabond

KEY PLAN



REVISIONS

Rev.	DESCRIPTION	DATE	APR.

PROJECT NO. :

SCALE: 1:100

DESIGNED BY: Amira Mostafa Abdelmoneem

DWG BY: Amira Mostafa Abdelmoneem

1700296

CHECKED BY:

APPROVED BY:

22 May 2021

PROJECT TITLE:

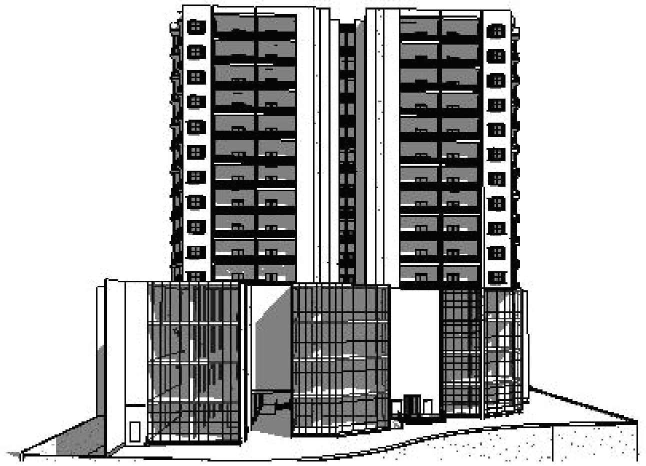
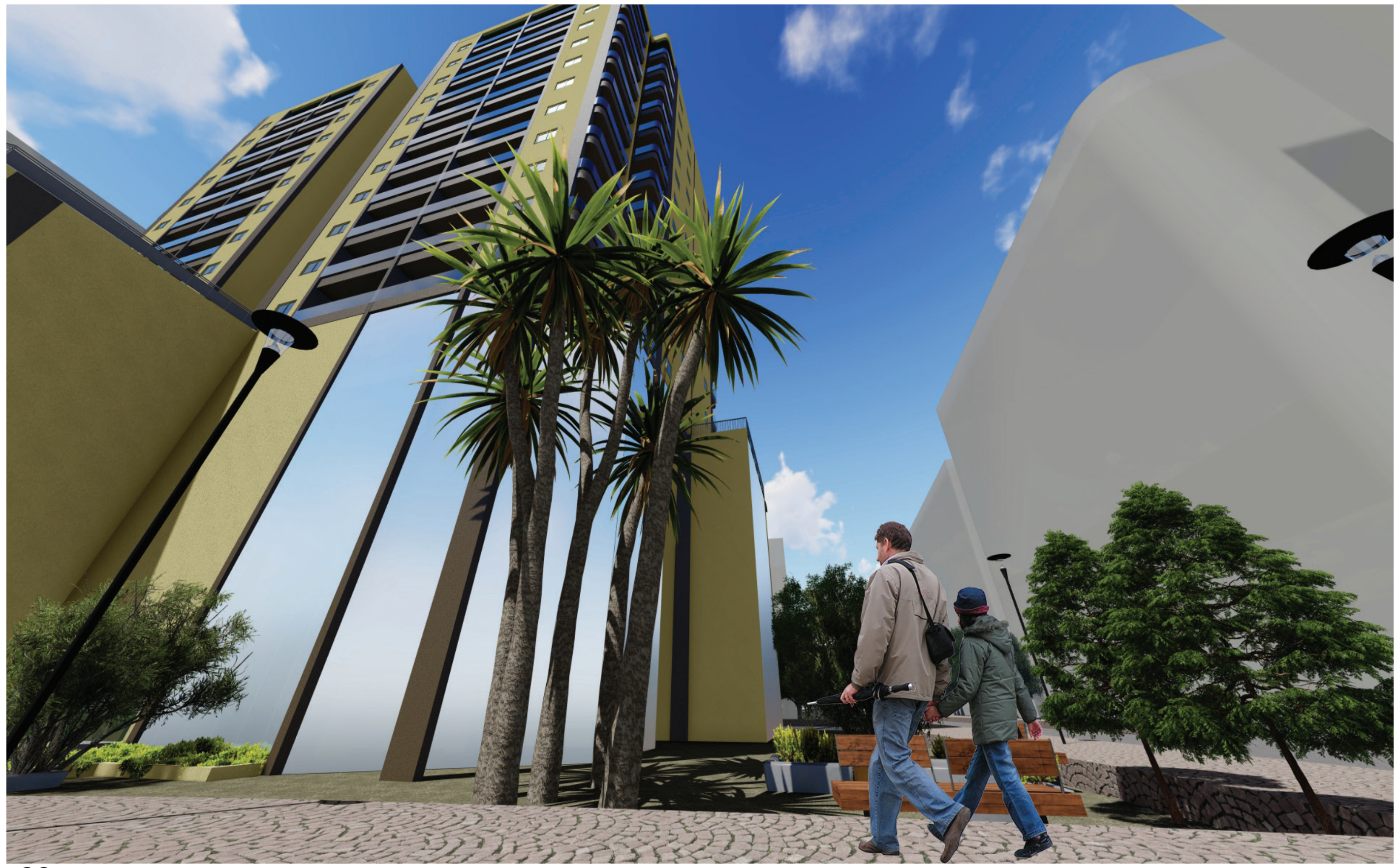
MIXED USE TOWER

DRAWING NAME:

NORTHERN FACADE

DRAWING REFERENCE NO.:

A101

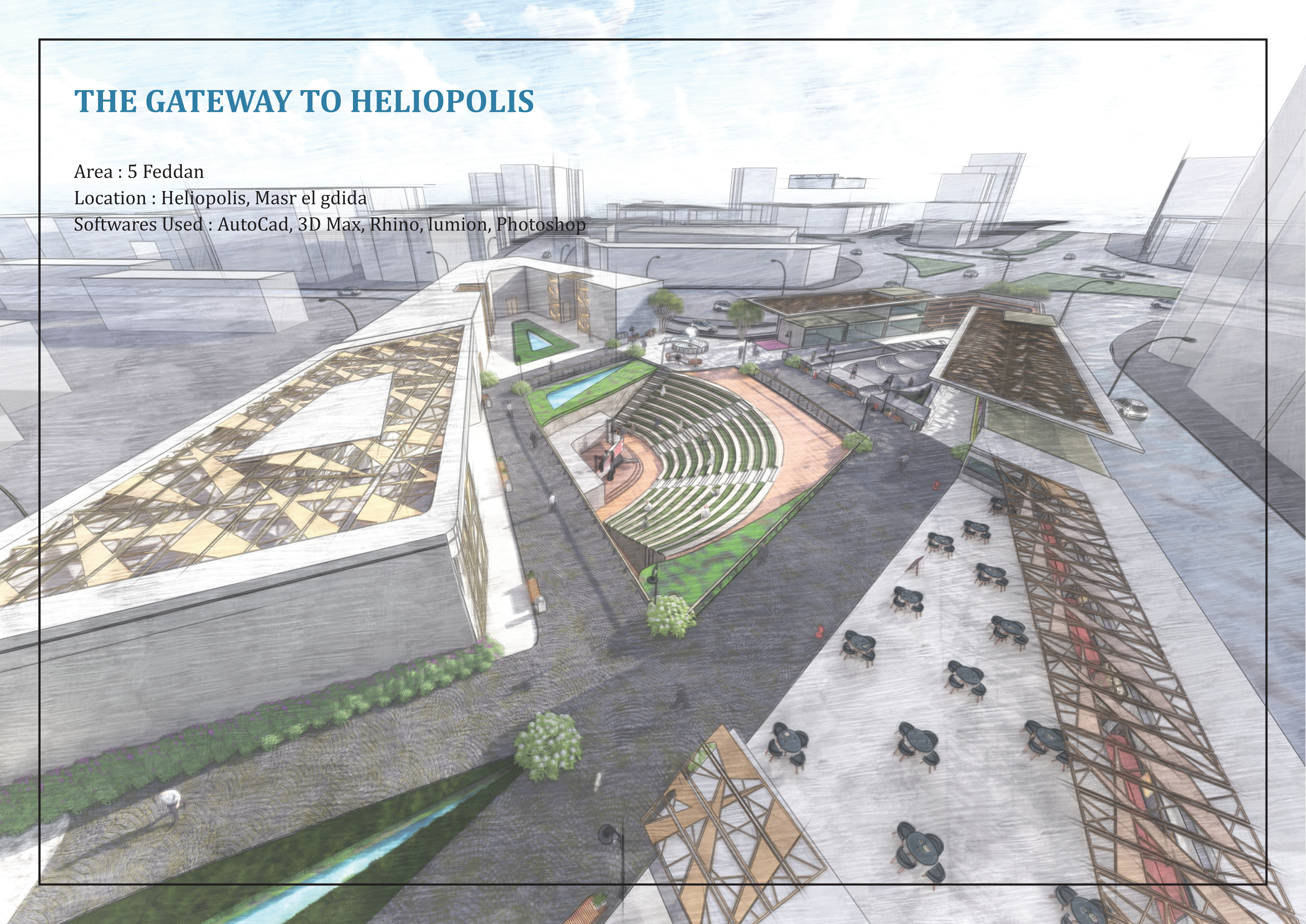



GROUP WORK

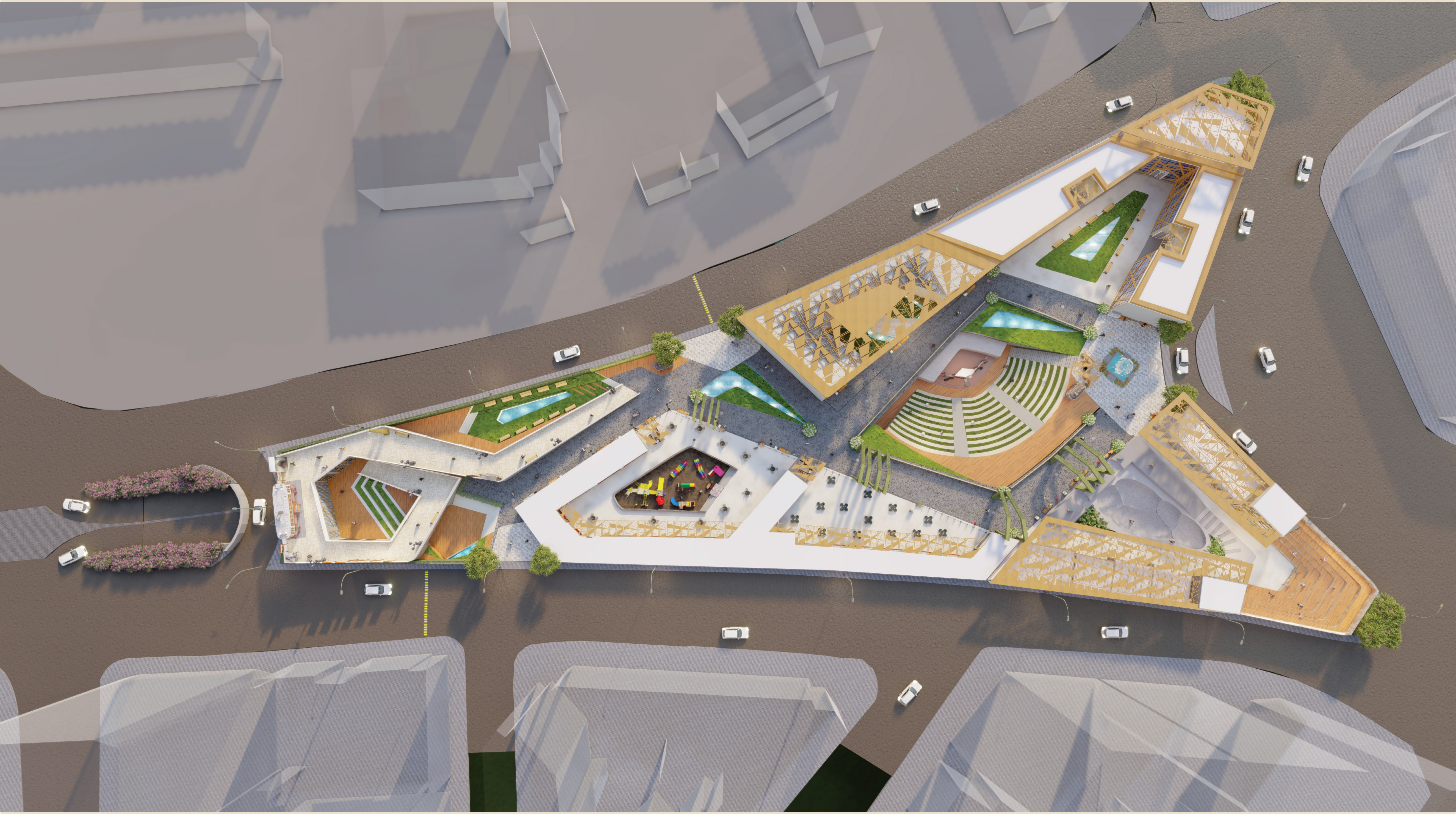
Urban design - landscape

THE GATEWAY TO HELIOPOLIS

Area : 5 Feddan
Location : Heliopolis, Masr el gdida
Softwares Used : AutoCad, 3D Max, Rhino, lumion, Photoshop

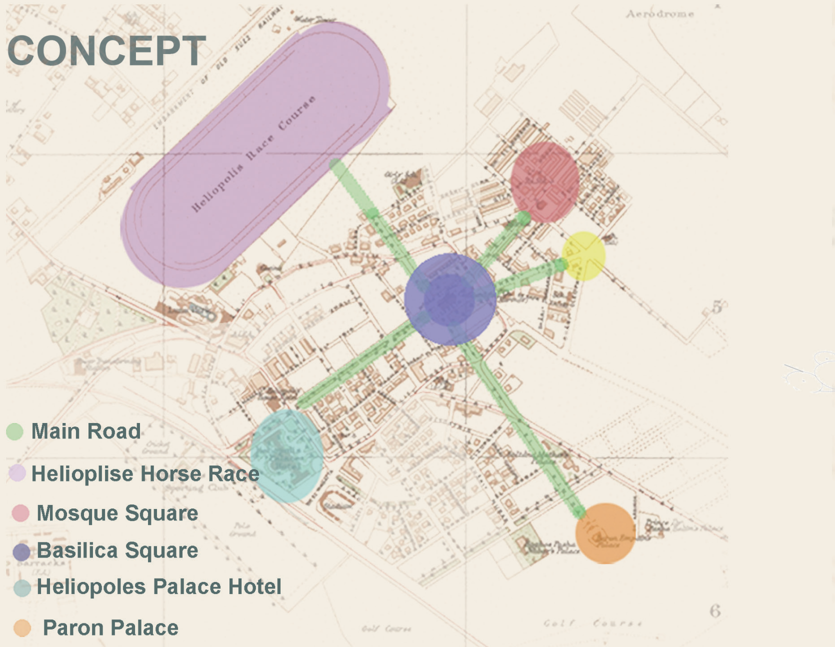


LAYOUT

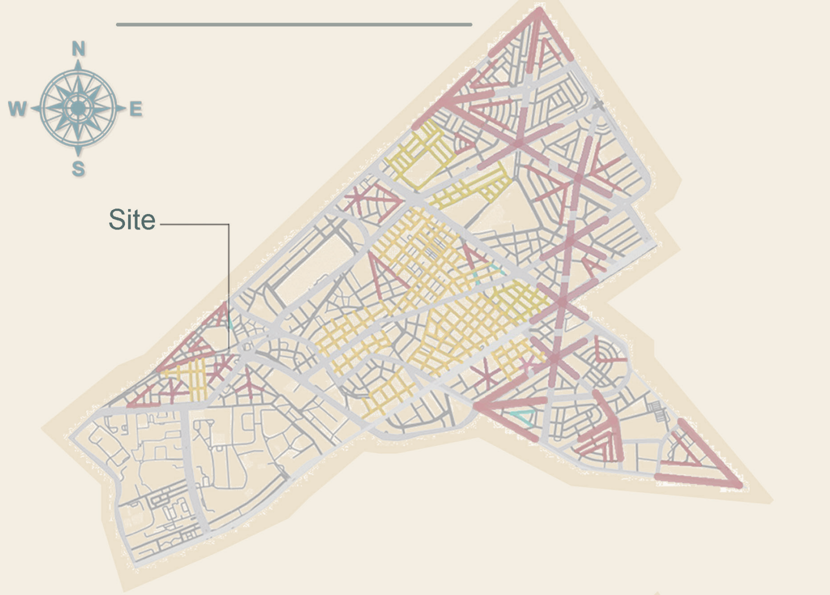


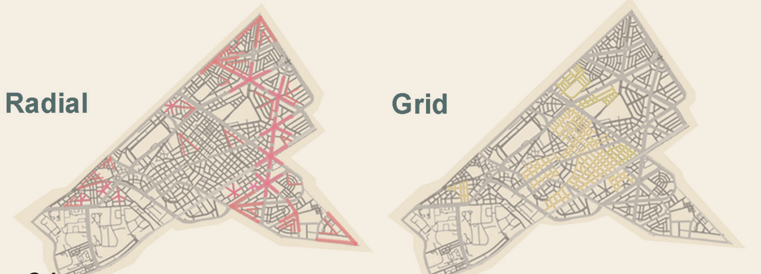
THE GATEWAY TO HELIOPOLIS

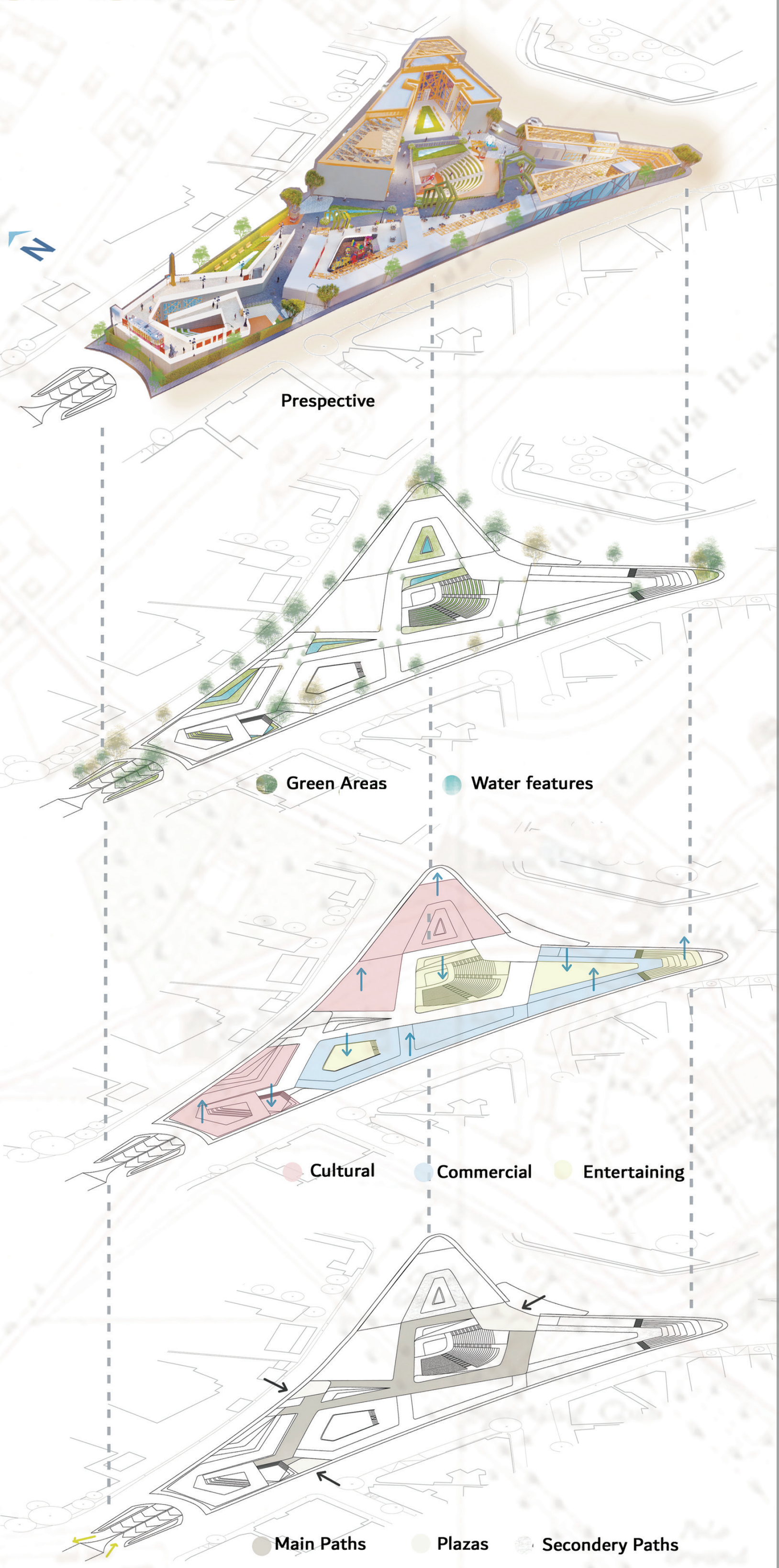
CONCEPT



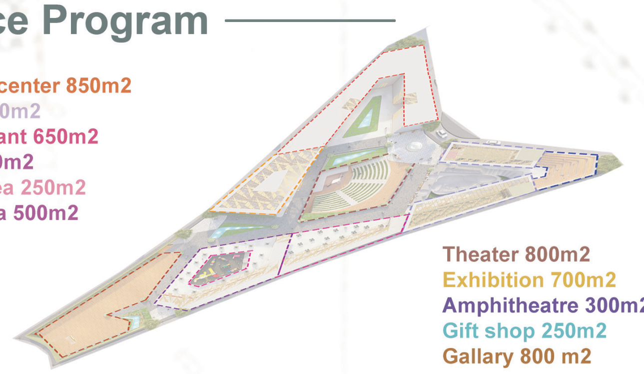
As a design inspired by the first design of Heliopolis to express all its areas and link them together, we placed the Heliopolis storytelling in the middle similar to the basilica people gathering, with 5 main radial axes to cover the cultural activities.
using it's urban fabric of radial and grid systems.
as a gateway of Helioples and its development we located a pedestrian pridge as an iconic feature to enrich the concept of clear visual axies and create new ones all over the project with a spectacular experince, creating new spaces by different levels and providing shades over places with aesthetic patterns.







Space Program

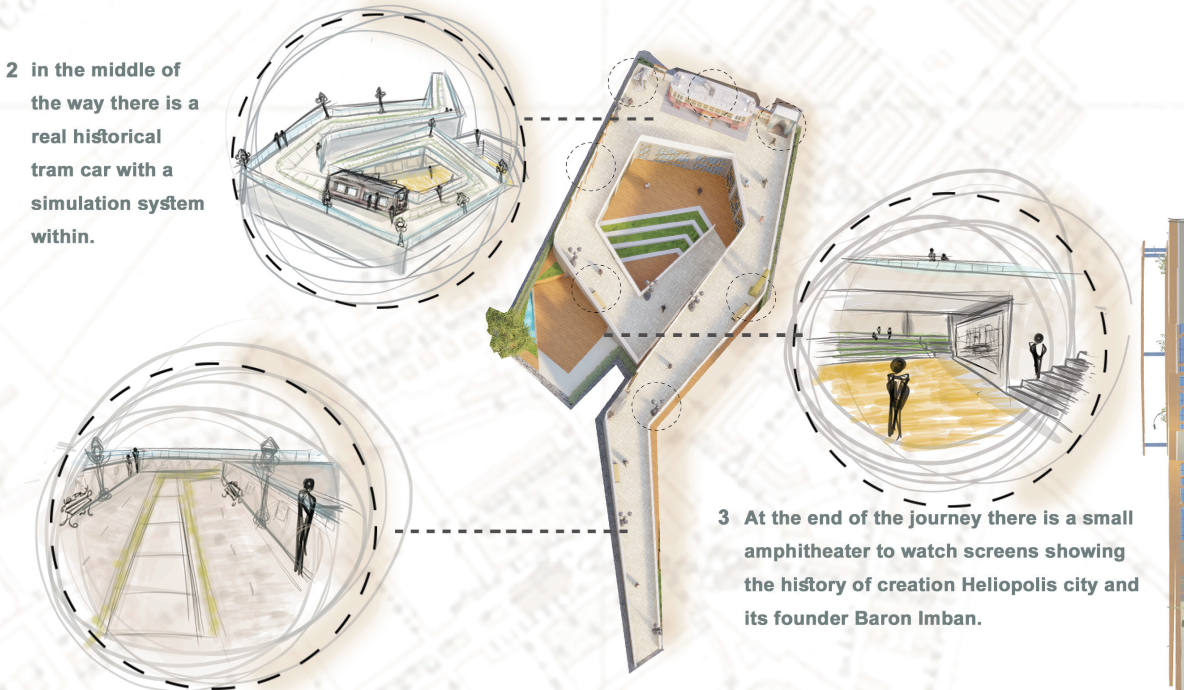


Culture center 850m2
Shop 500m2
Restaurant 650m2
Cafe 250m2
Kids Area 250m2
Cafeteria 500m2

Theater 800m2
Exhibition 700m2
Amphitheatre 300m2
Gift shop 250m2
Gallary 800 m2

The Storytelling of Heliopolis

To emphasize the design concept, we chose the storytelling to be a visual attraction element rather than an ordinary spoken words. We created differences in levels to take advantage of the space below the storytelling and raised it to emphasize the importance of this element in the project, forming 3 different experiences in it in addition to the exhibitions below it.



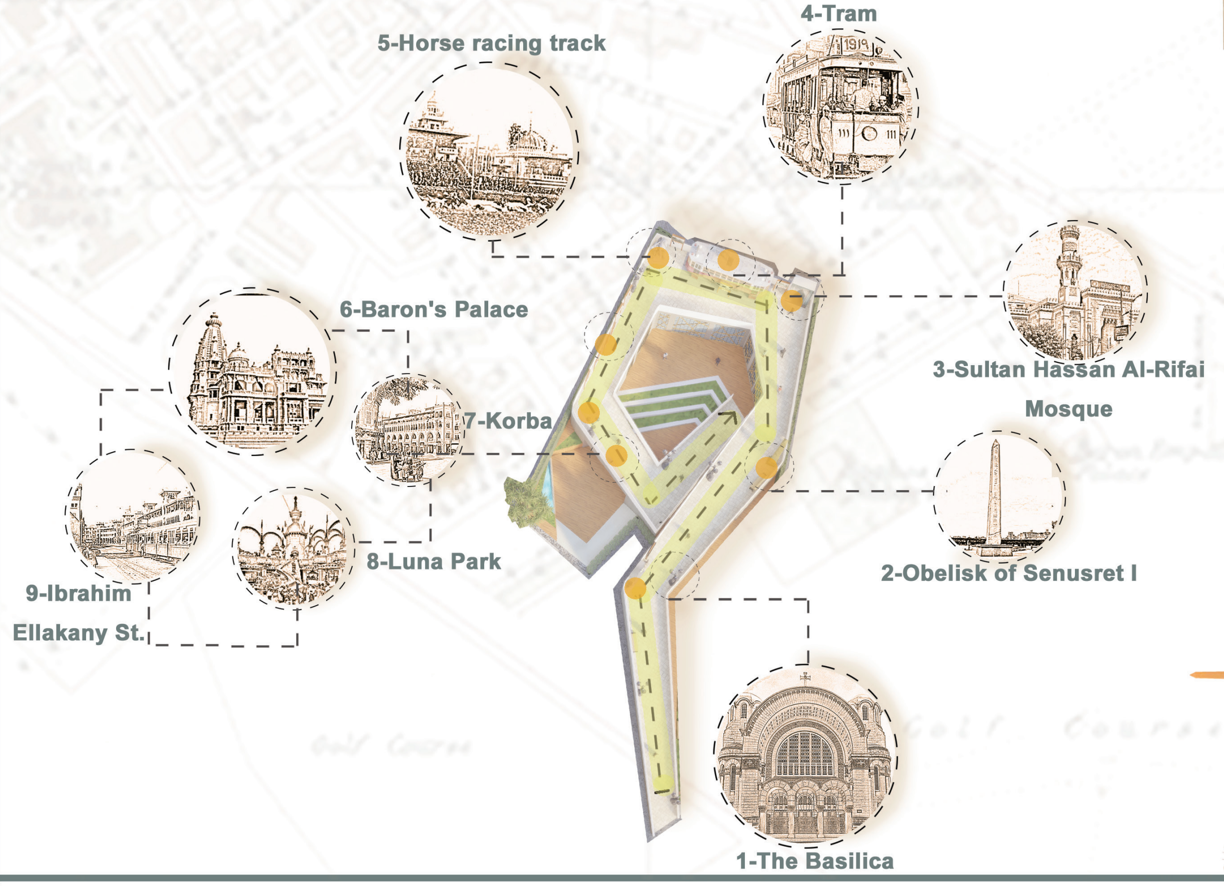
2 in the middle of the way there is a real historical tram car with a simulation system within.

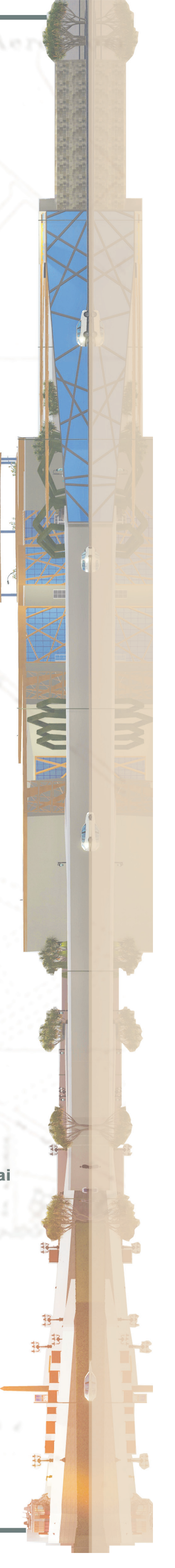
3 At the end of the journey there is a small amphitheater to watch screens showing the history of creation Heliopolis city and its founder Baron Imban.

1 simulating old streets emphasizing wideness, green areas and first transportation in Heliopolis the tram with street patterns.with its unique architectural style and street furniture as light posts and seats.

4 The ground floor is an opean plan exhibition of real parts of the tram street furnitures building decorations and rare photographs.

Time Line

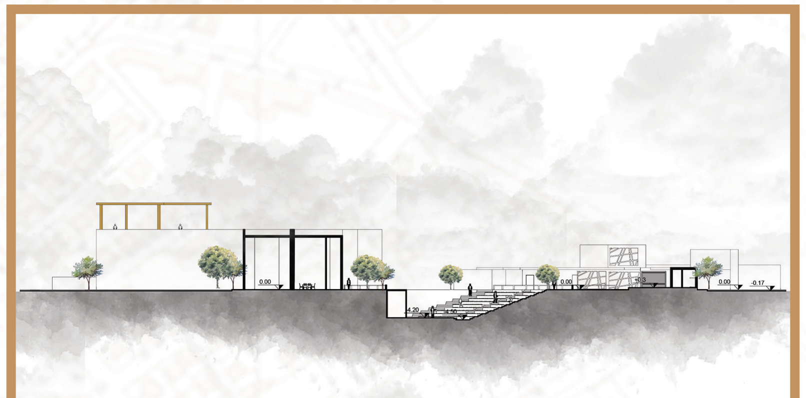




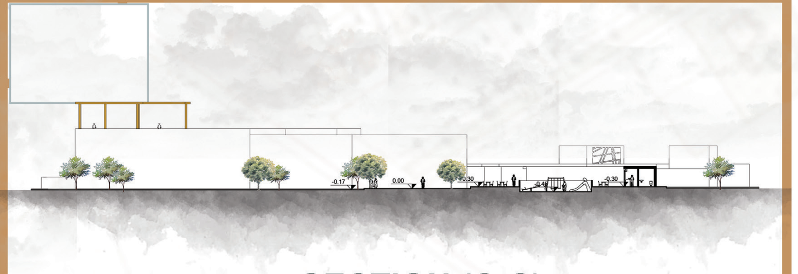
MASTER PLAN 1:200

LAYOUT 1:400

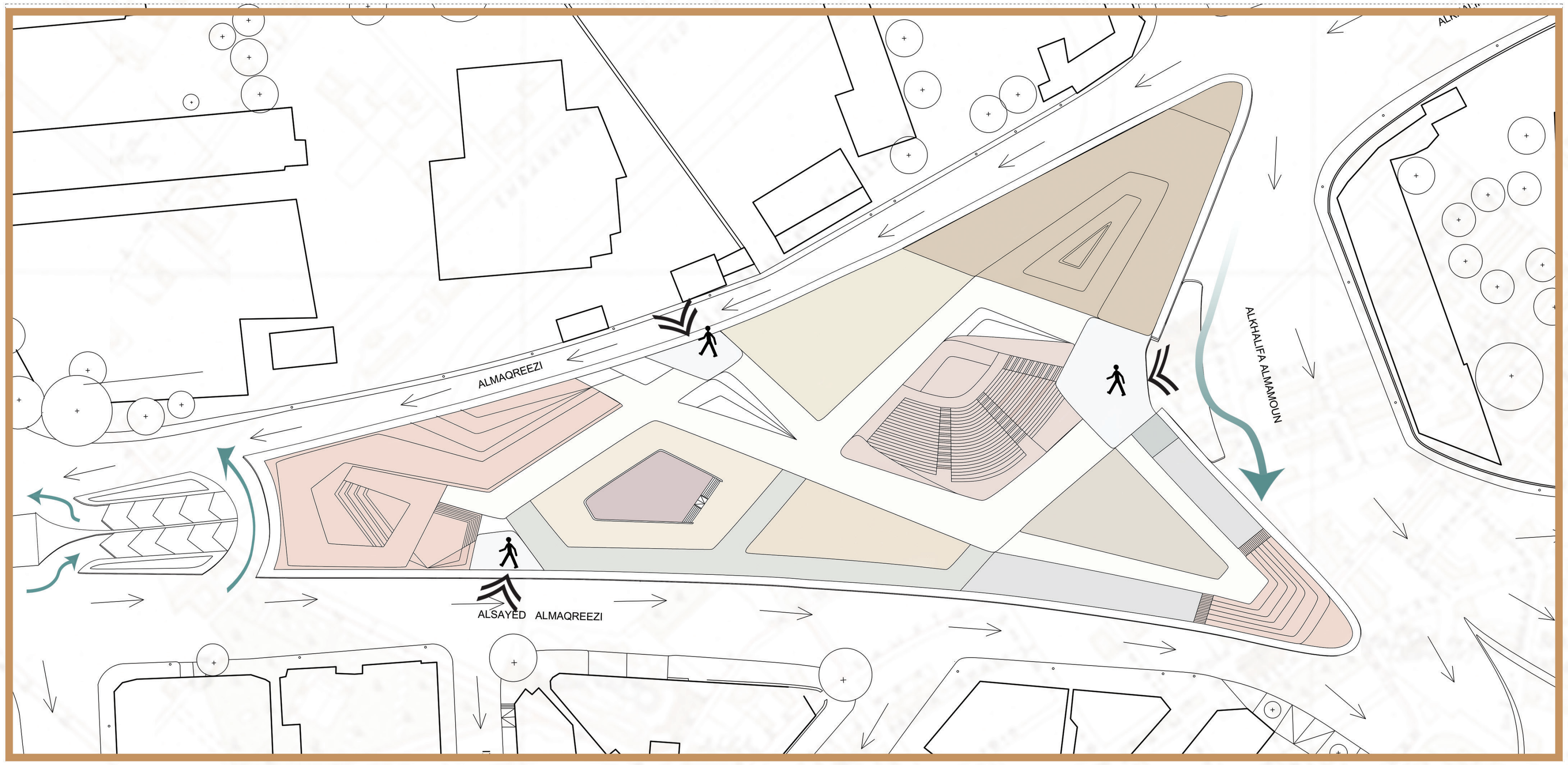
SECTION (A-A)
1:400



SECTION (B-B)
1:400

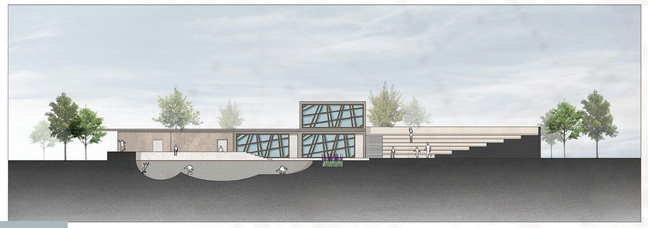


SECTION (C-C)
1:400



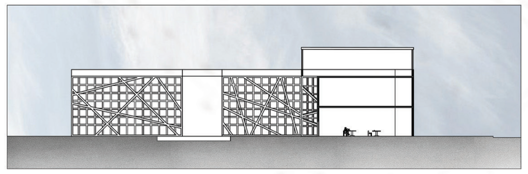
- Cultural Center
- Gallary
- Kids Area
- Cafe' & Cafeteria
- Fast Food
- Restaurent
- Play Ground
- Core
- Theater
- Exhibition
- Amphitheater
- Shops

ZONING 1:400



SECTION (D-D)
1:400

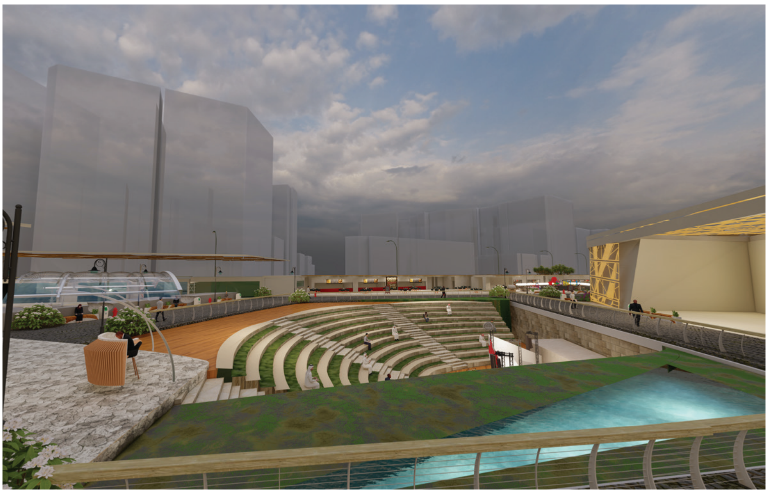
SECTION (E-E)
1:400

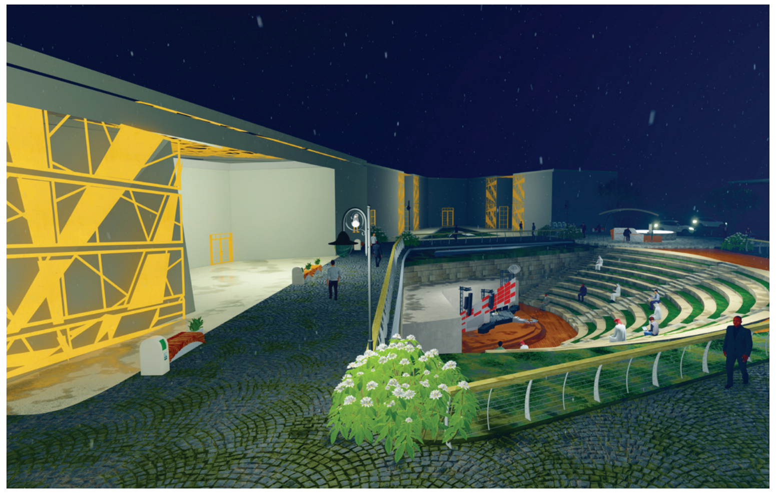
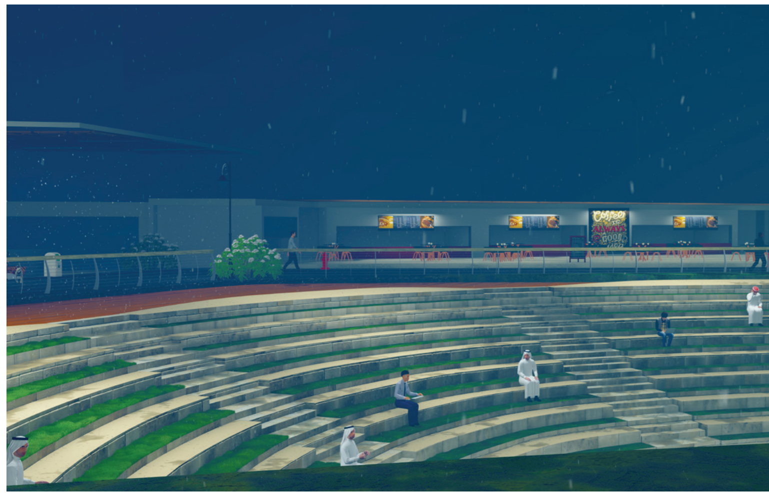


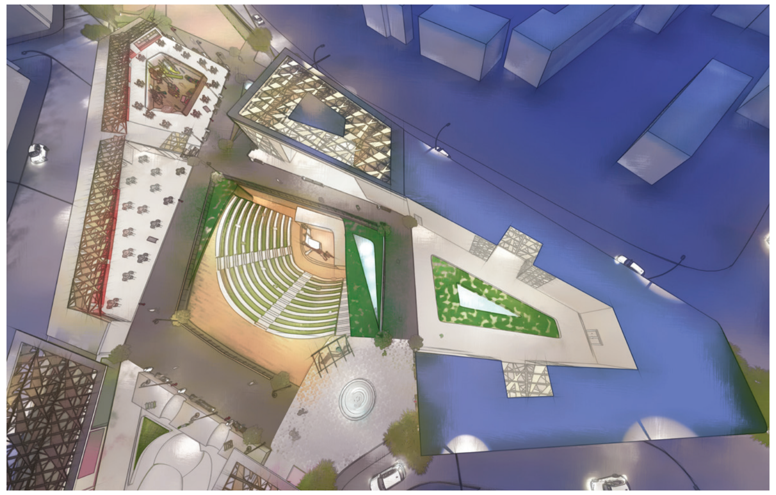
SECTION (F-F)
1:400

VISUAL ANALYSIS

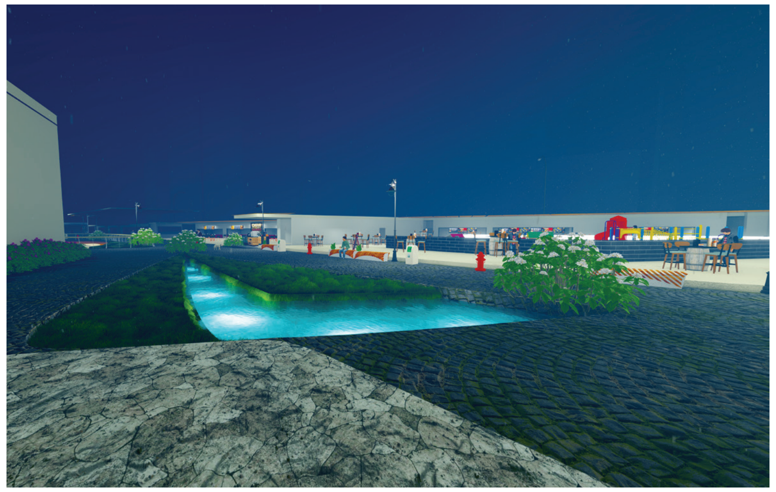
AMPHTHEATER



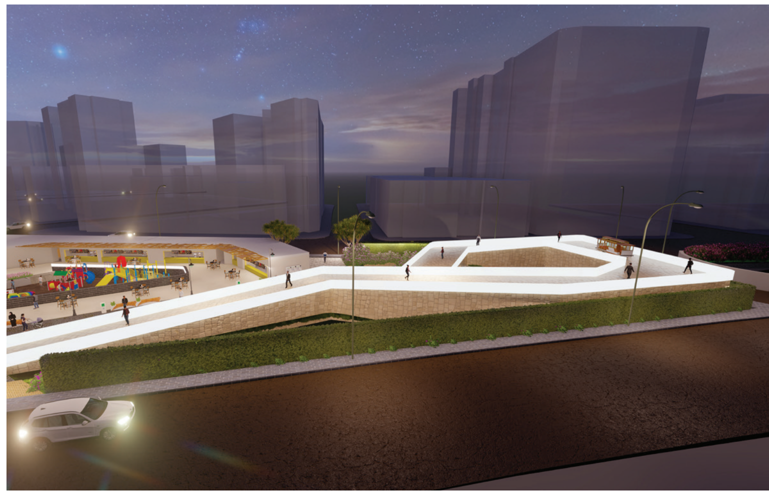
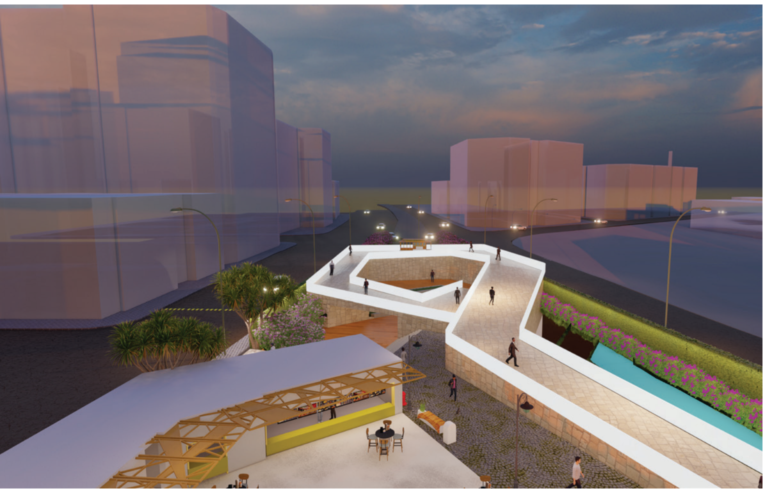
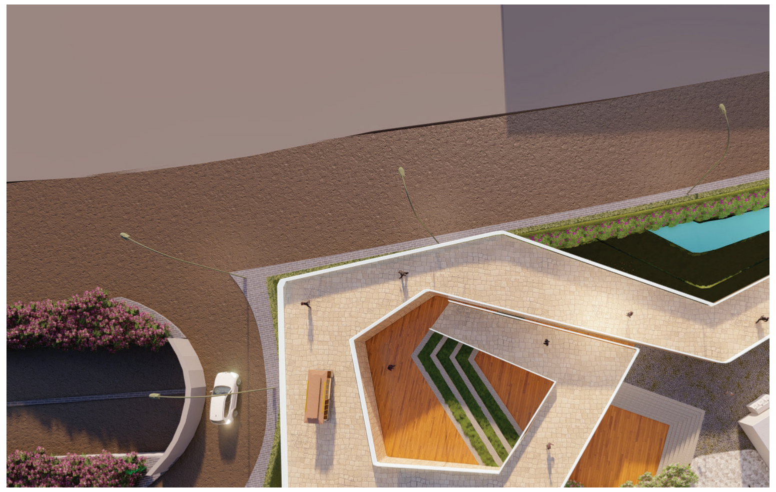
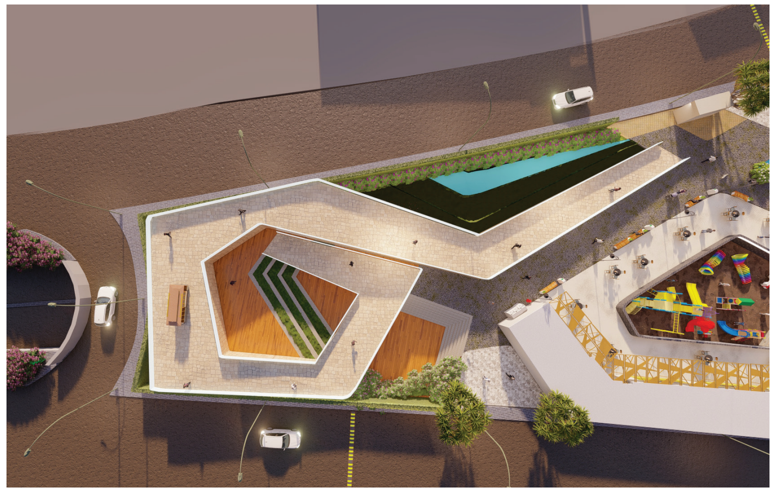





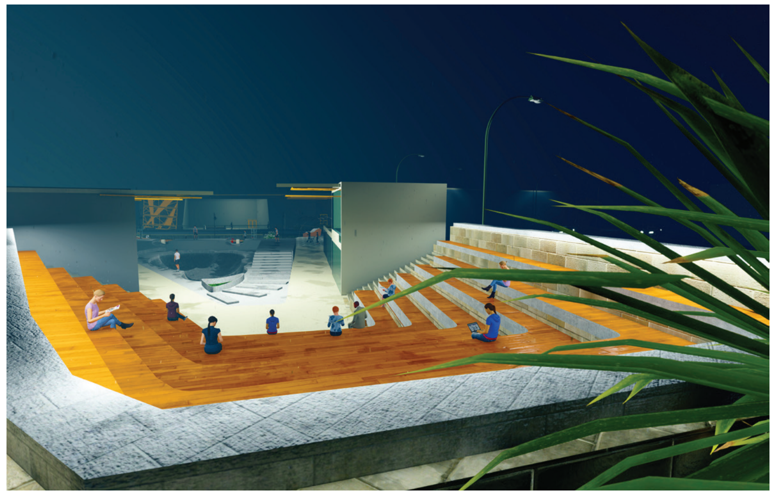
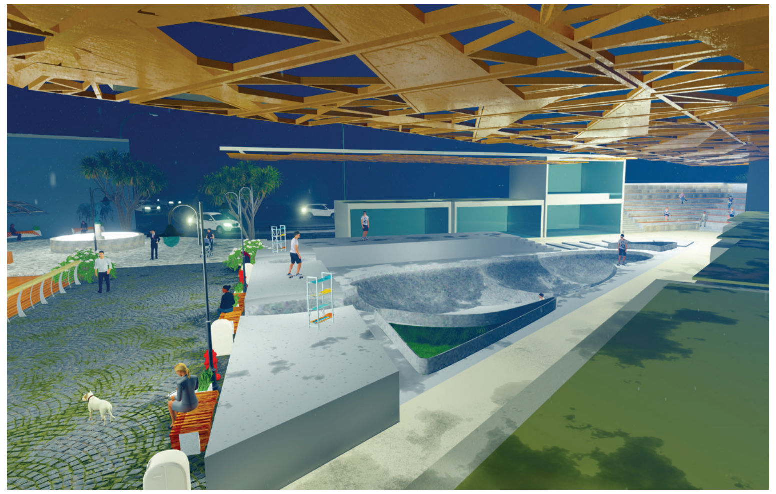
KIDS & RESTAURANTS

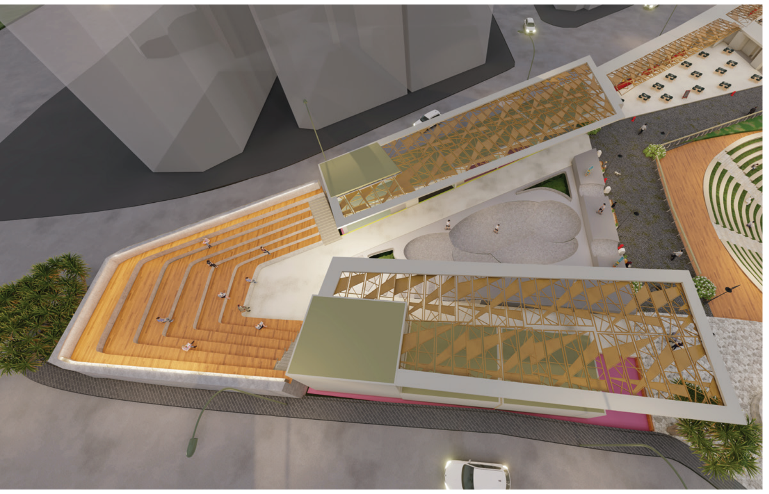


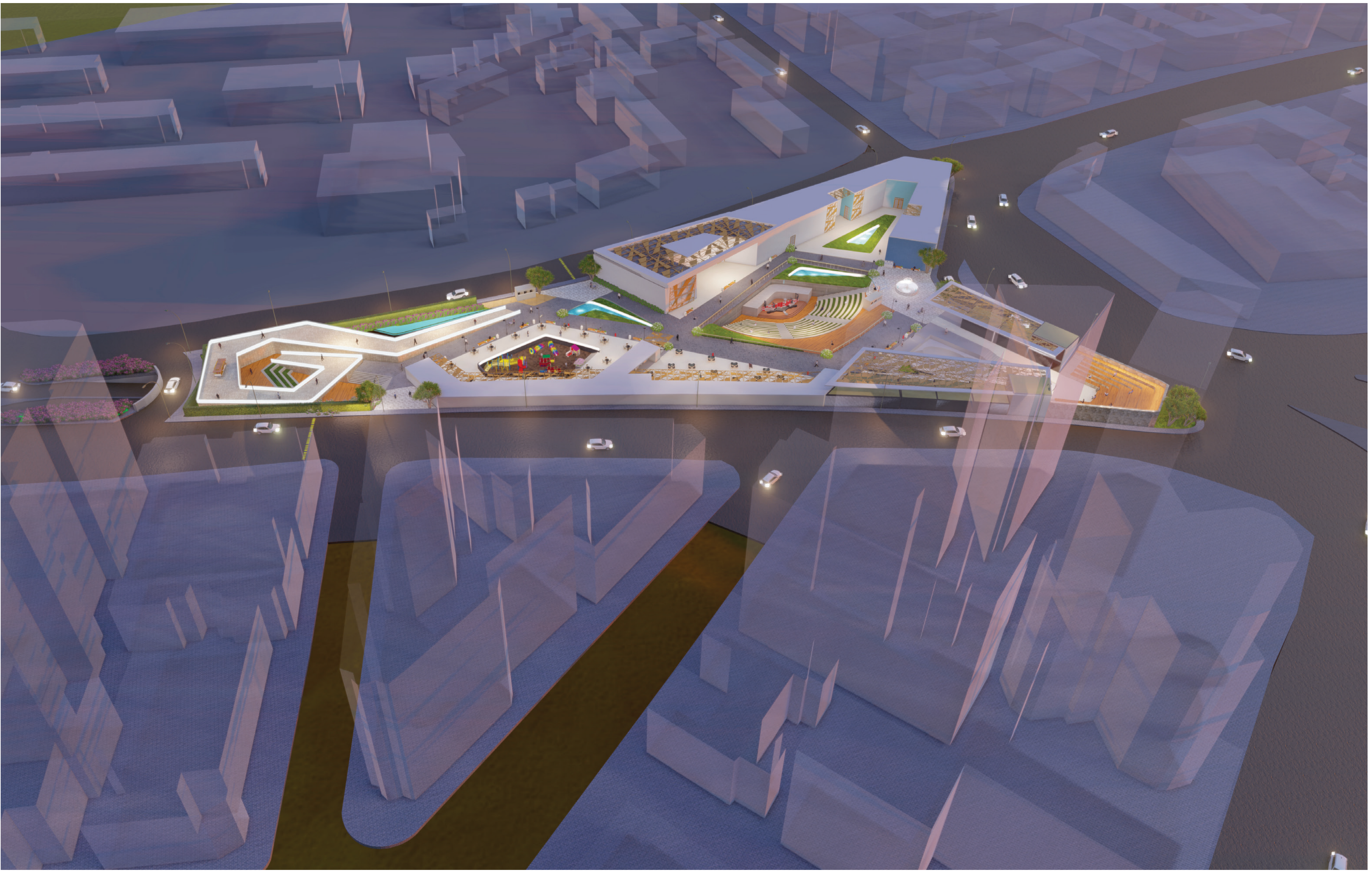
CULTURAL PLACE STORY TELLING

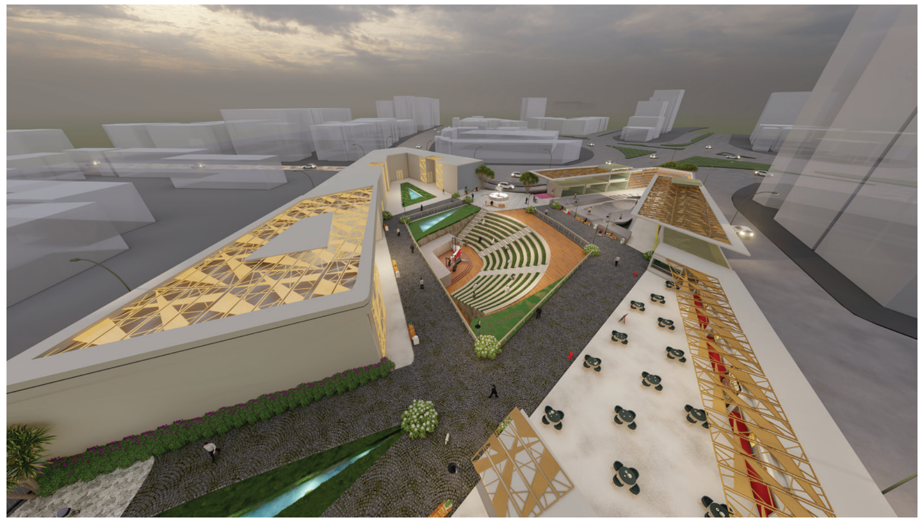





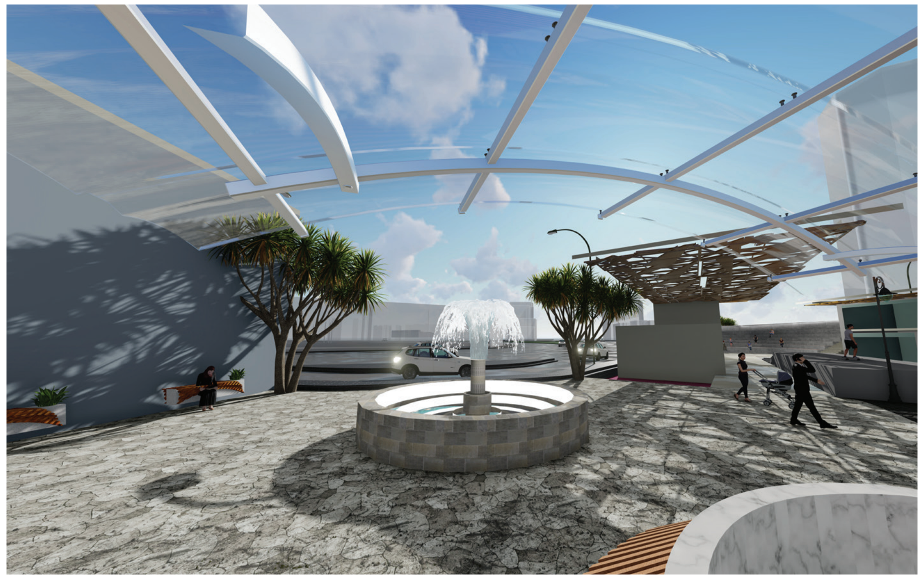
PLAYGROUNDS









ANIMATION

For more details about the project scan the qr code

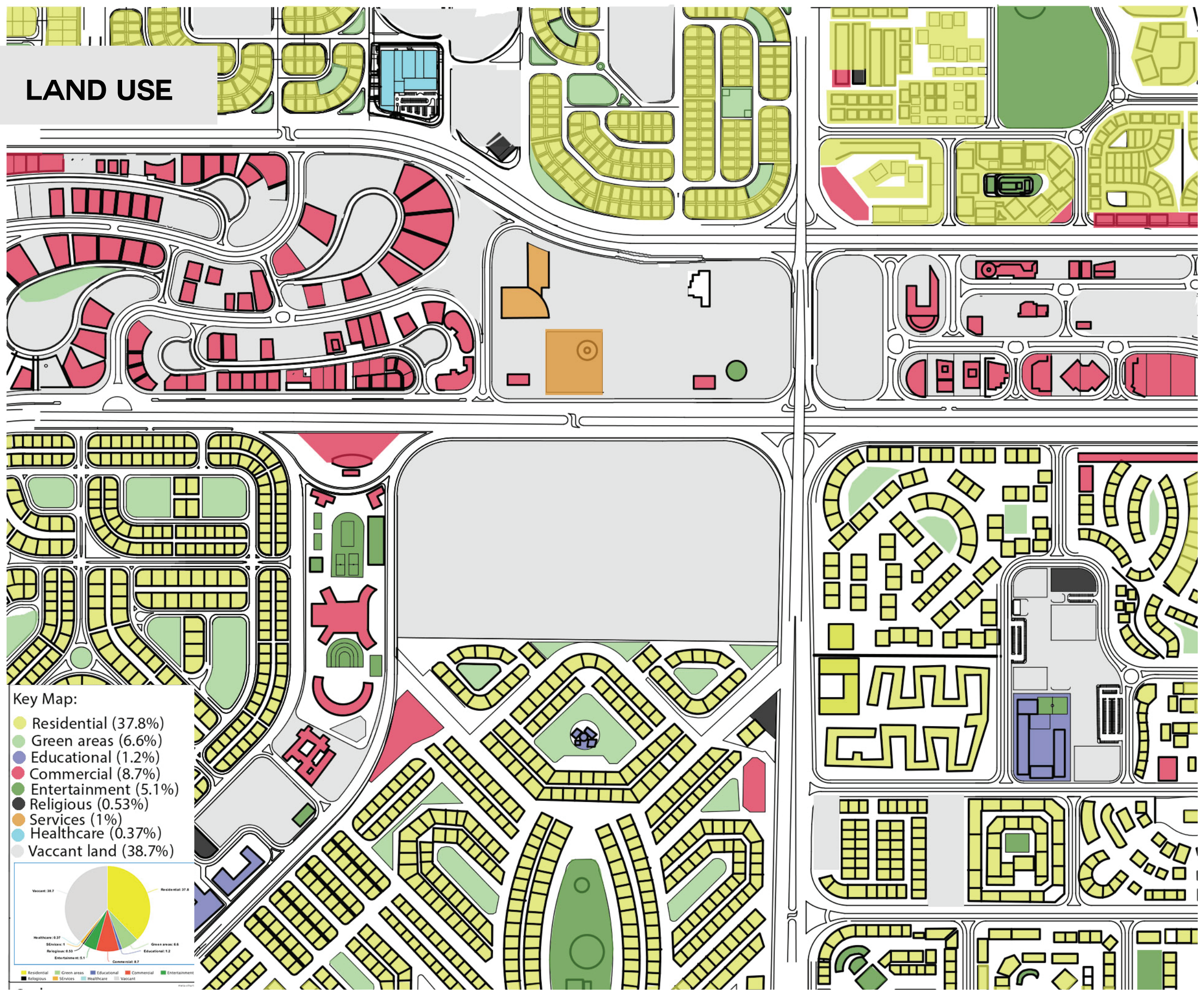
Abre De La Via Compound

Area : 30800m2

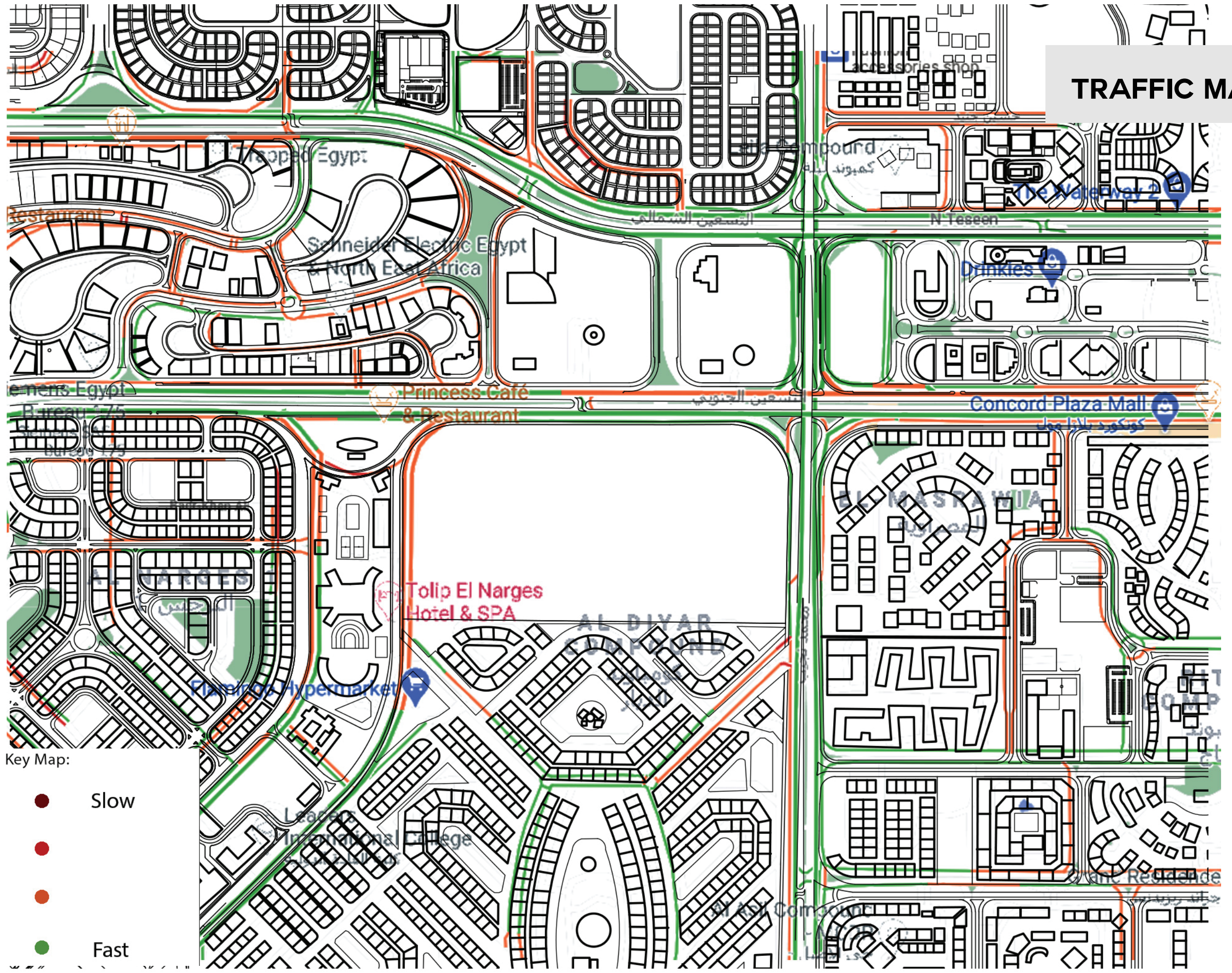
Location : 90th Road, New cairo

Softwares Used : AutoCad, 3D Max, Rhino, lumion, Photoshop

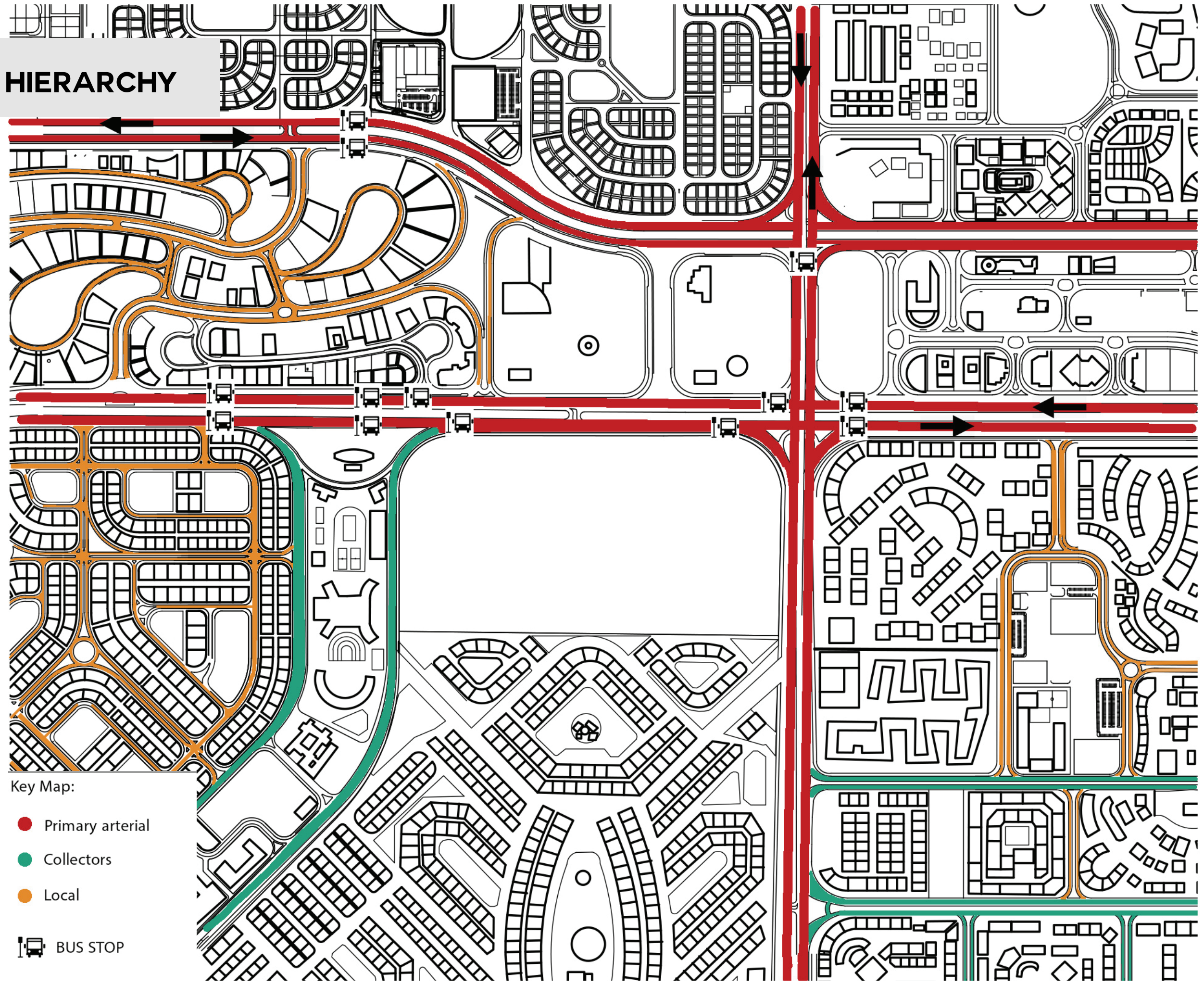
LAND USE



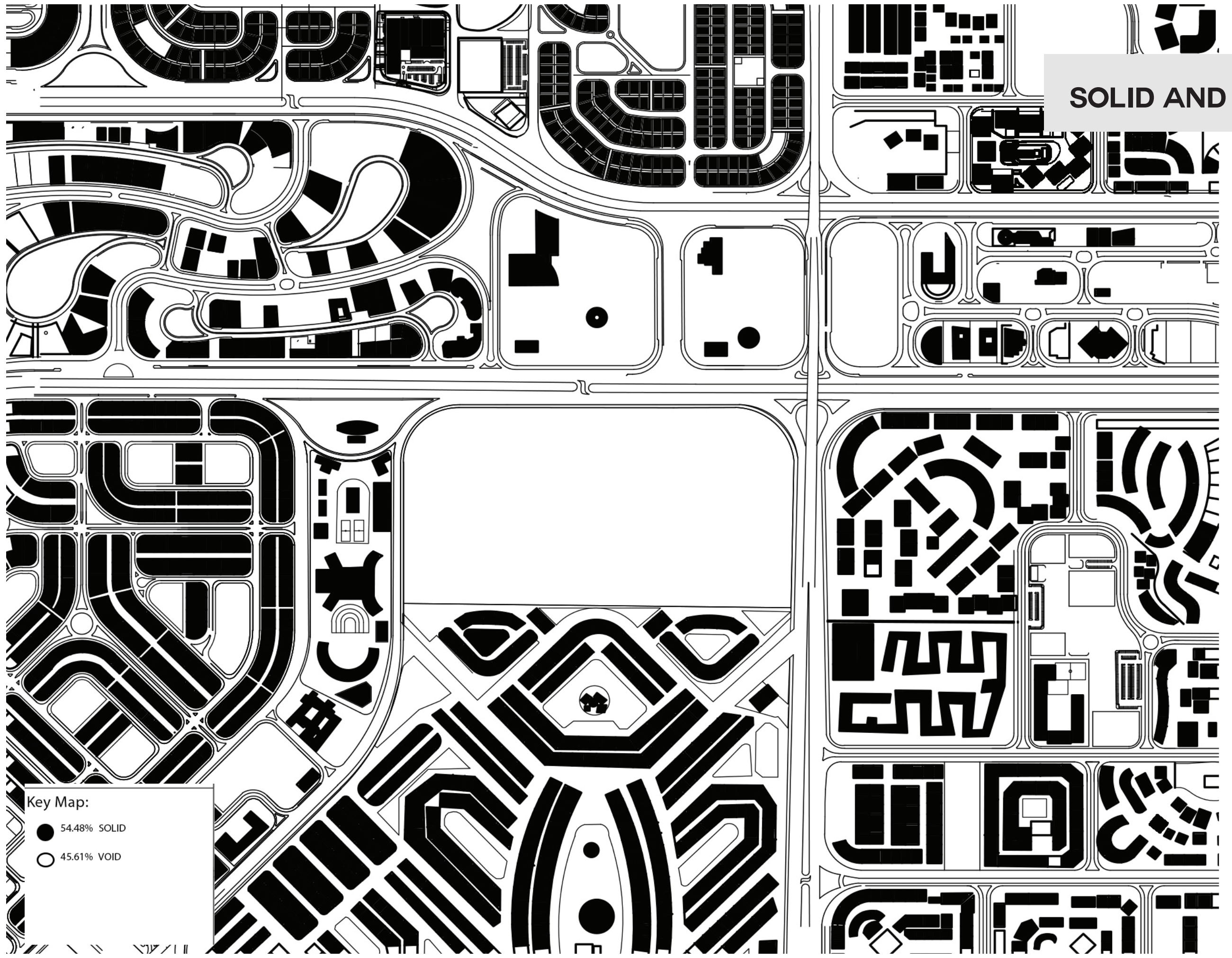
TRAFFIC MAP



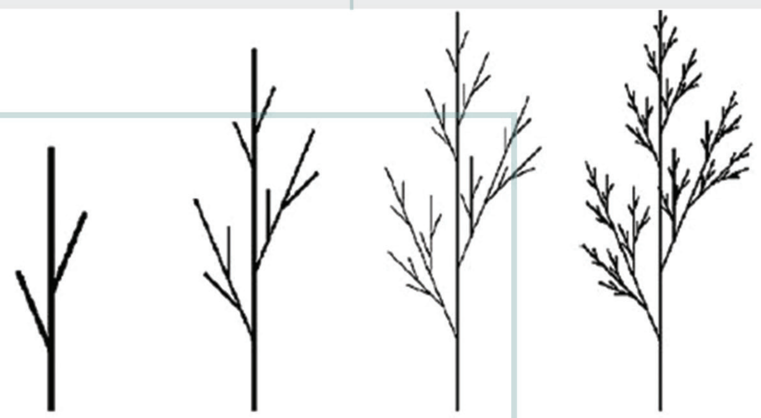
MICRO HIERARCHY



SOLID AND VOID

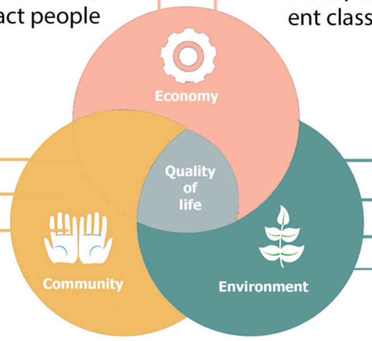


CONCEPT



inspiration of the beginnings of 5th settlement compounds which was at first 3 compounds and continued to branch out till today with compounds and lives like the tree of life concept and its natural eqilibrium

QUALITY OF LIFE



Commercial area overlooking S90th street to attract people

Safe and comfortable pedistrian network

Public, semi-public and private spaces

Social interaction, public services as a core

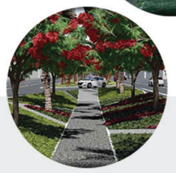
varaity of units areas to target different classes

Rainwater harvesting System for green areas

replace grass with ground cover plants to reduce water consumption

Rain drainage channels through gardens and central islands in the streets

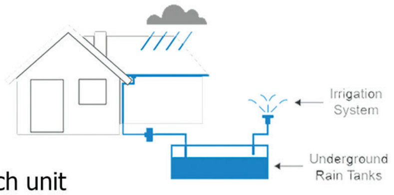
filtration & reuse of grey water to be used in irrigation



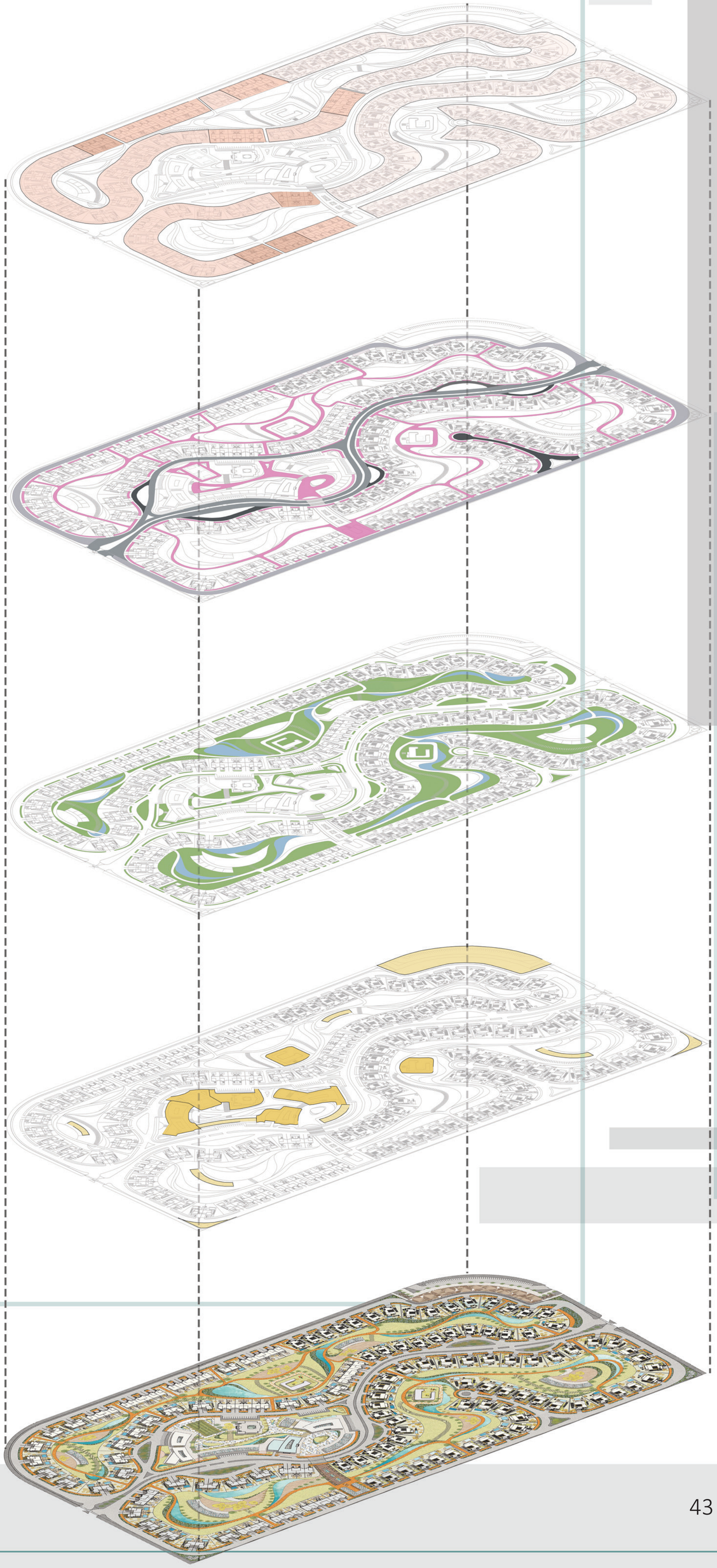
RAIN WATER HARVESTING

RAIN WATER HARVESTING

- -The average rainfall in Cairo is 25 mm/year
- -The average surface area of one unit is 250 square meters
- -run off coff. for tiles 0.9
- -The average amount of stored water is 5625 m3/year for each unit
- -15.625 m3/ day for each unit
- -Avg. cost per unit 40.000 L.E = 0.2-0.4 % from total unit cost



EXPLODED DIAGRAM



- Sandalone
- Twin
- Town house (6)
- Town house (4)

- Ringroad
- Collector
- Local
- Pedestrian

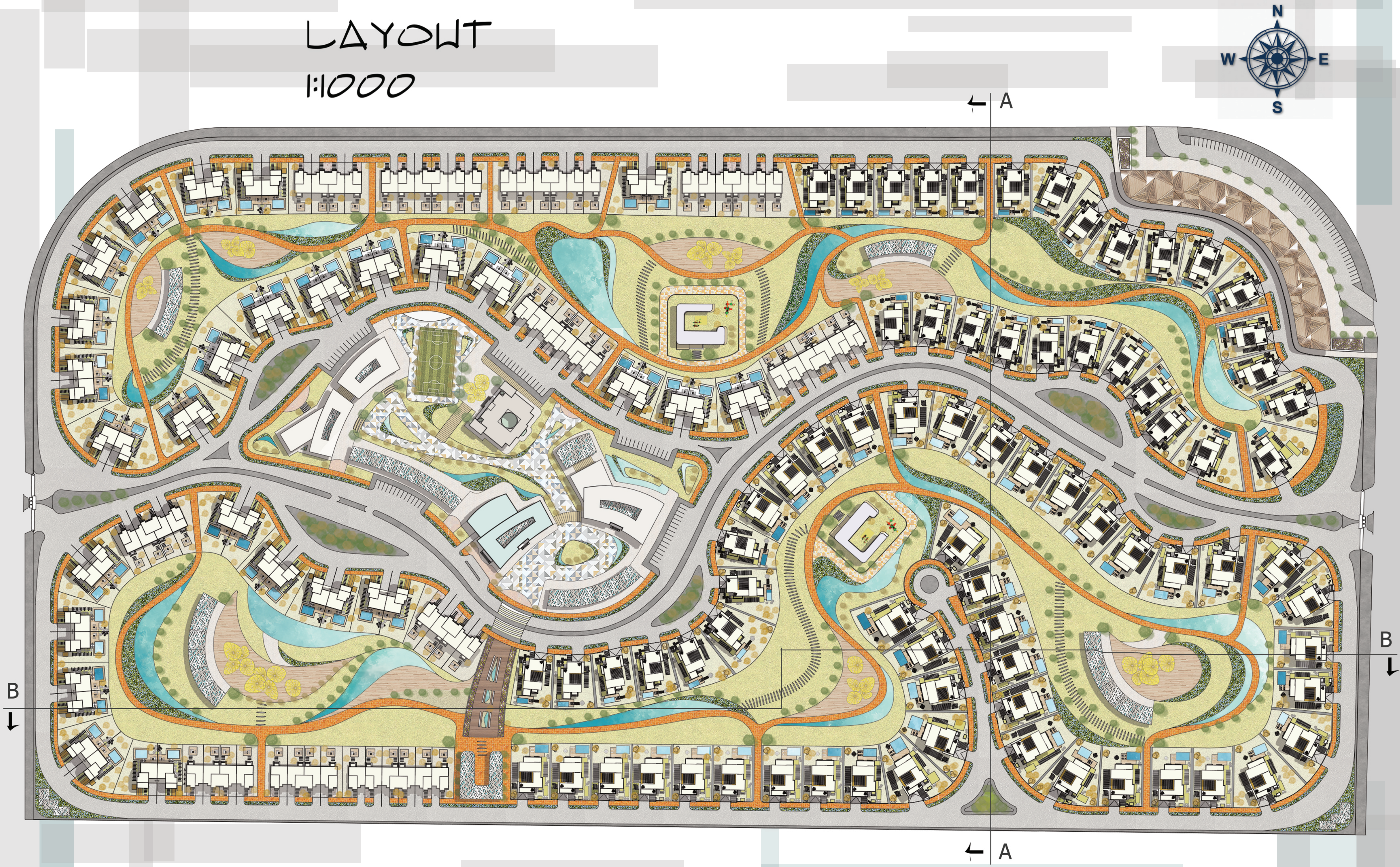
- Green areas
- Water feature

- Commercial
- Services

Final Layout

LAYOUT

1:1000



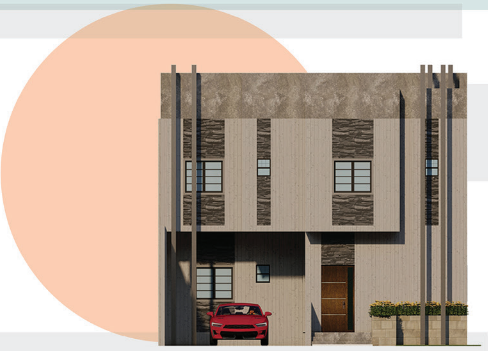
SEC A-A
1:500

MAIN ELEVATION
1:500

SEC B-B
1:500

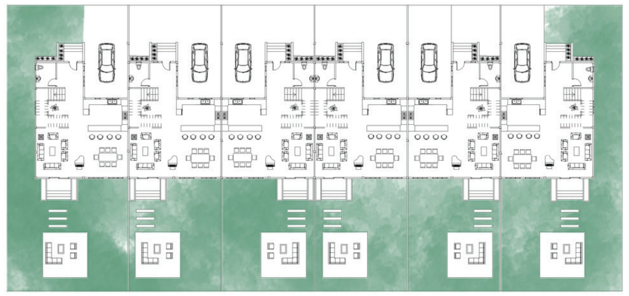
SEC B-B 1/500

TOWN HOUSE

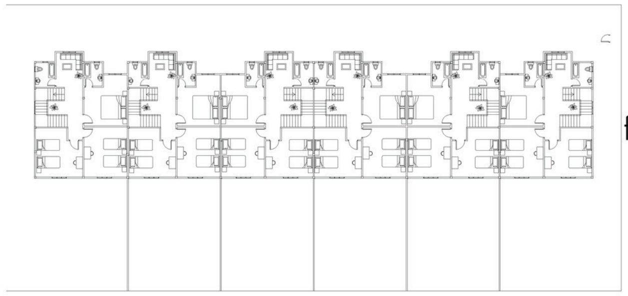


UNIT

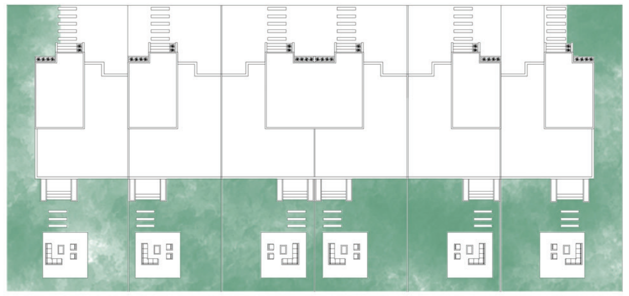
prototype (1)



ground floor

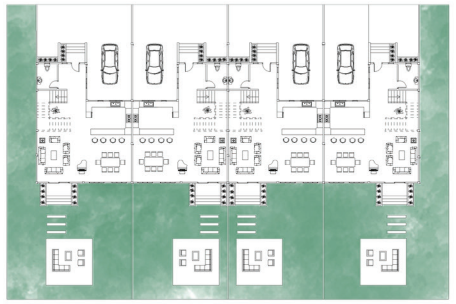


first floor

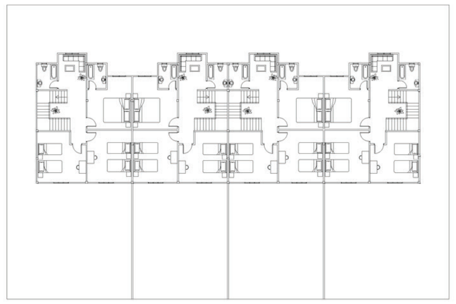


roof

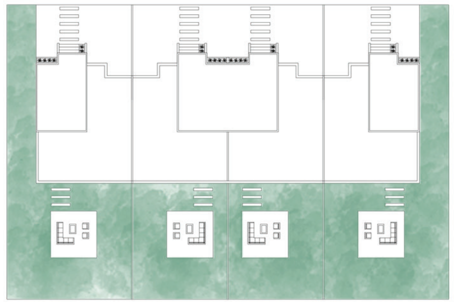
prototype (2)



ground floor

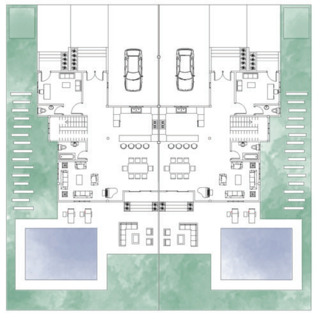


first floor

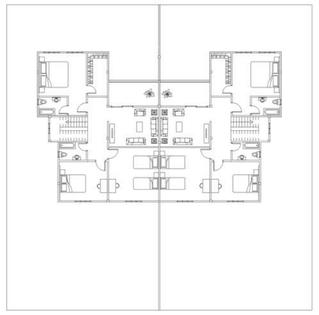


roof

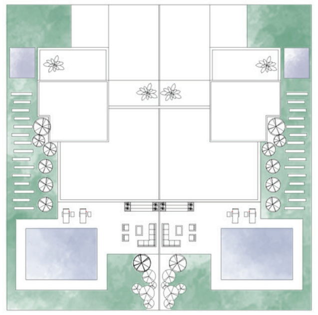
TWIN HOUSE



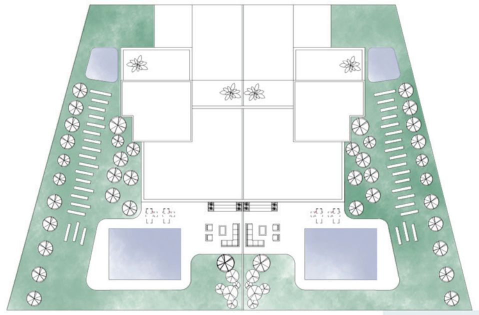
ground floor



first floor

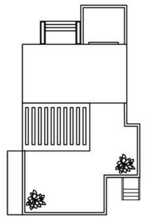


roof

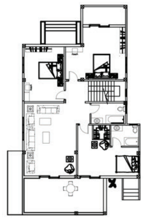


prototype (2) layout

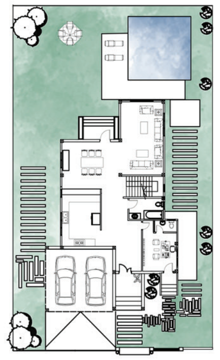
STANDALONE STANDARD



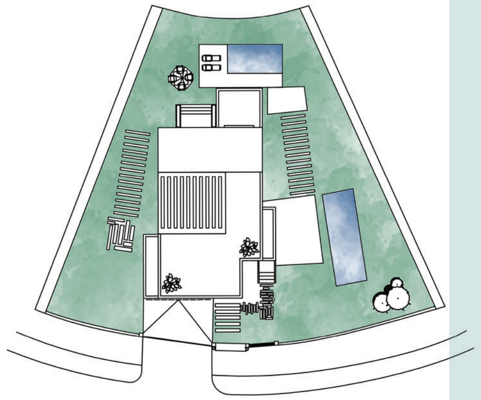
roof



first floor

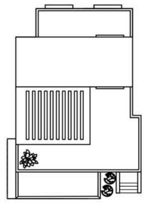


ground floor

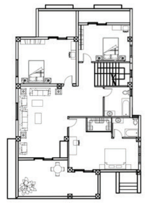


prototype (2) layout

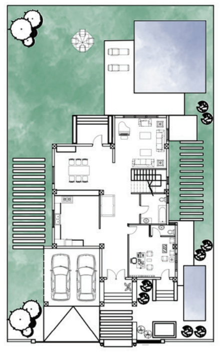
STANDALONE LARGE



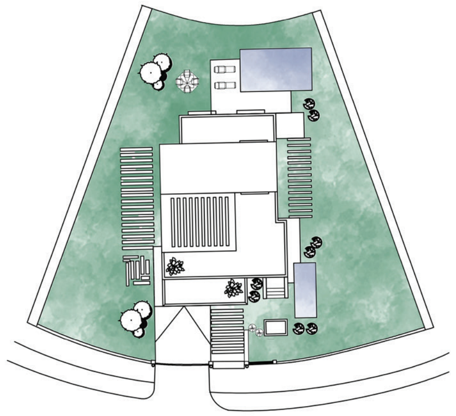
roof



first floor

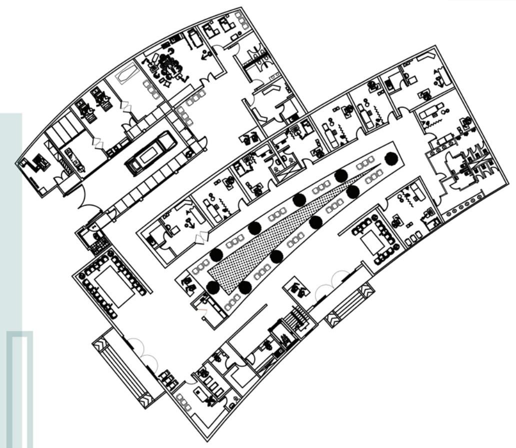


ground floor

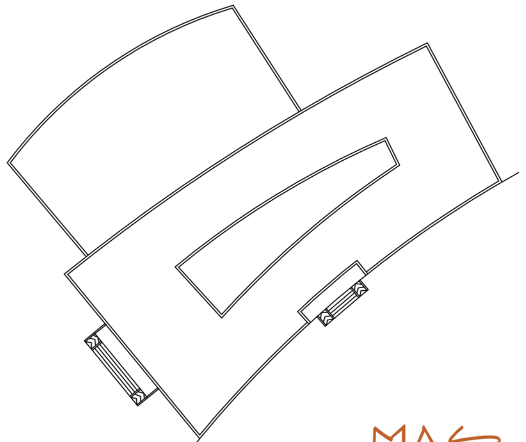


prototype (2) layout

HEALTH CARE

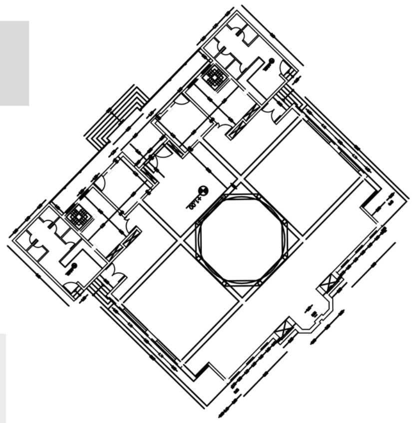


ground floor
1:400

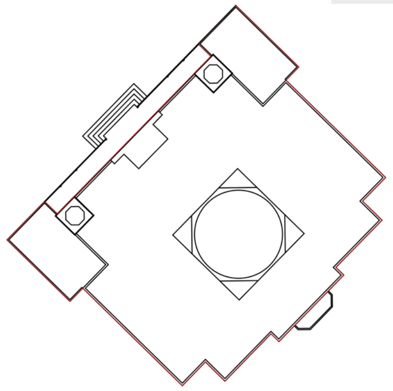


roof
1:400

MASJID

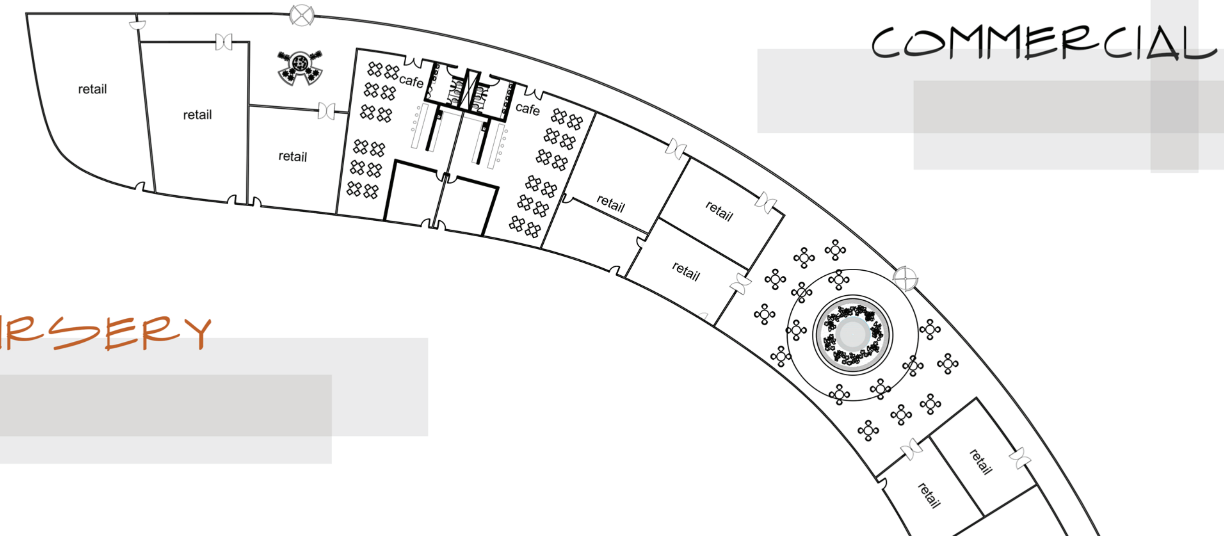
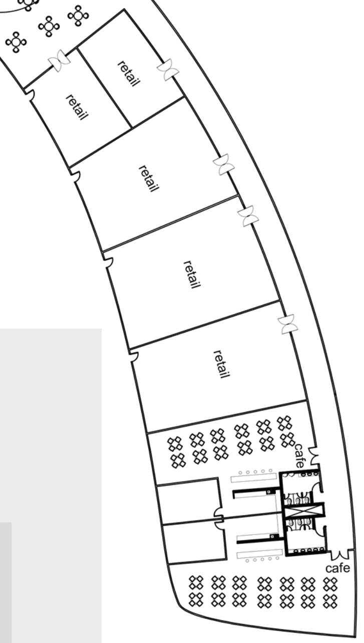


ground floor
1:400



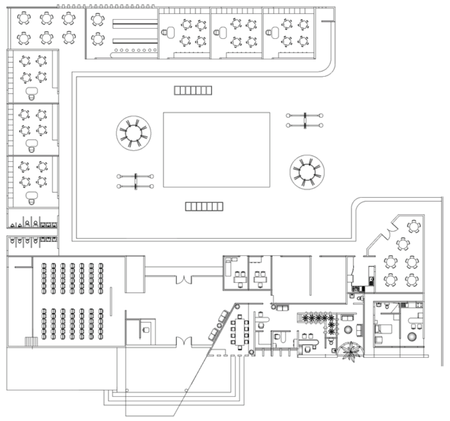
roof
1:400

COMMERCIAL

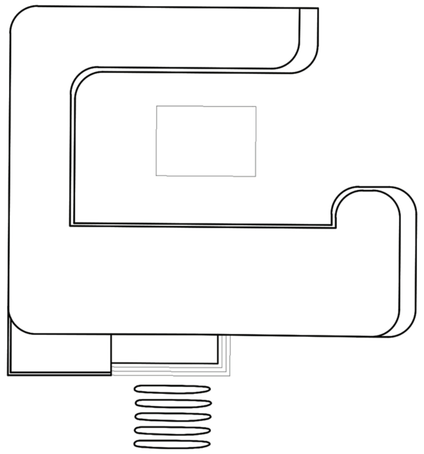



ground floor
1:400

NURSERY

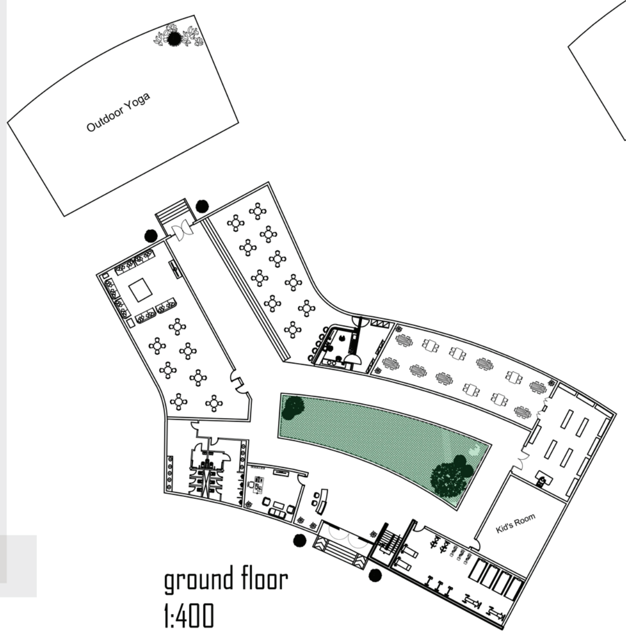


ground floor
1:400

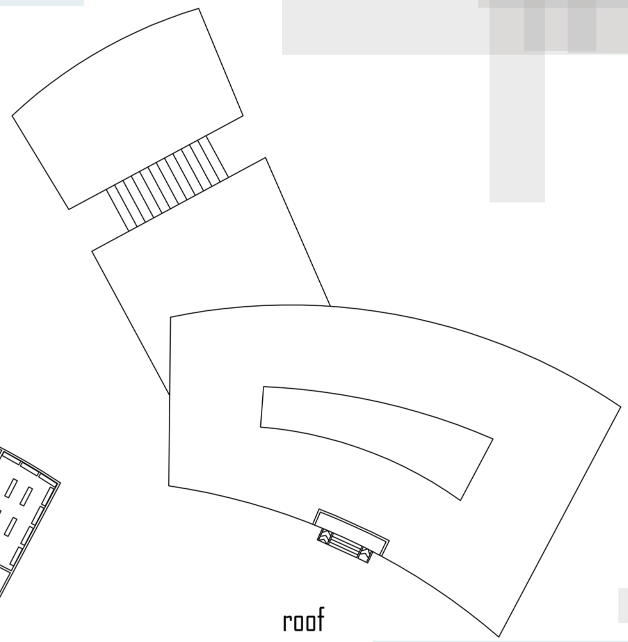


roof
1:400

ELDERS CLUB HOUSE



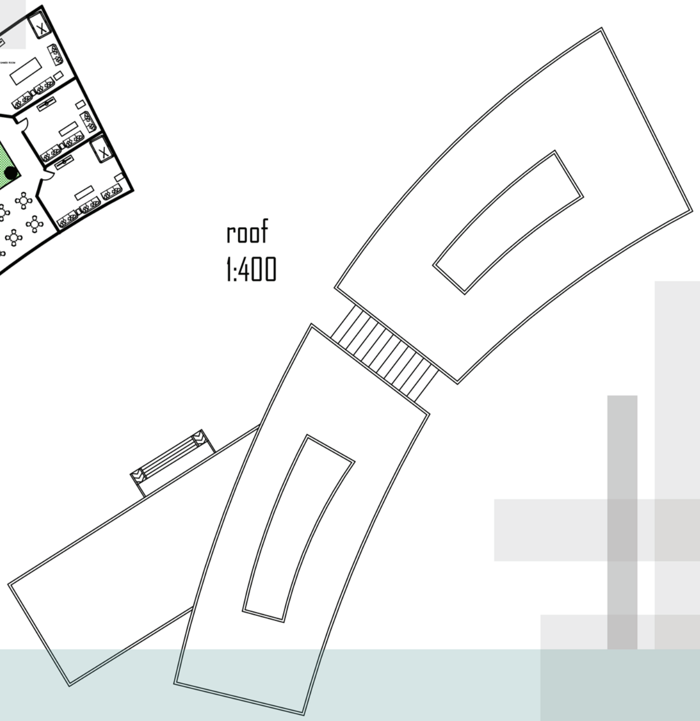
ground floor
1:400



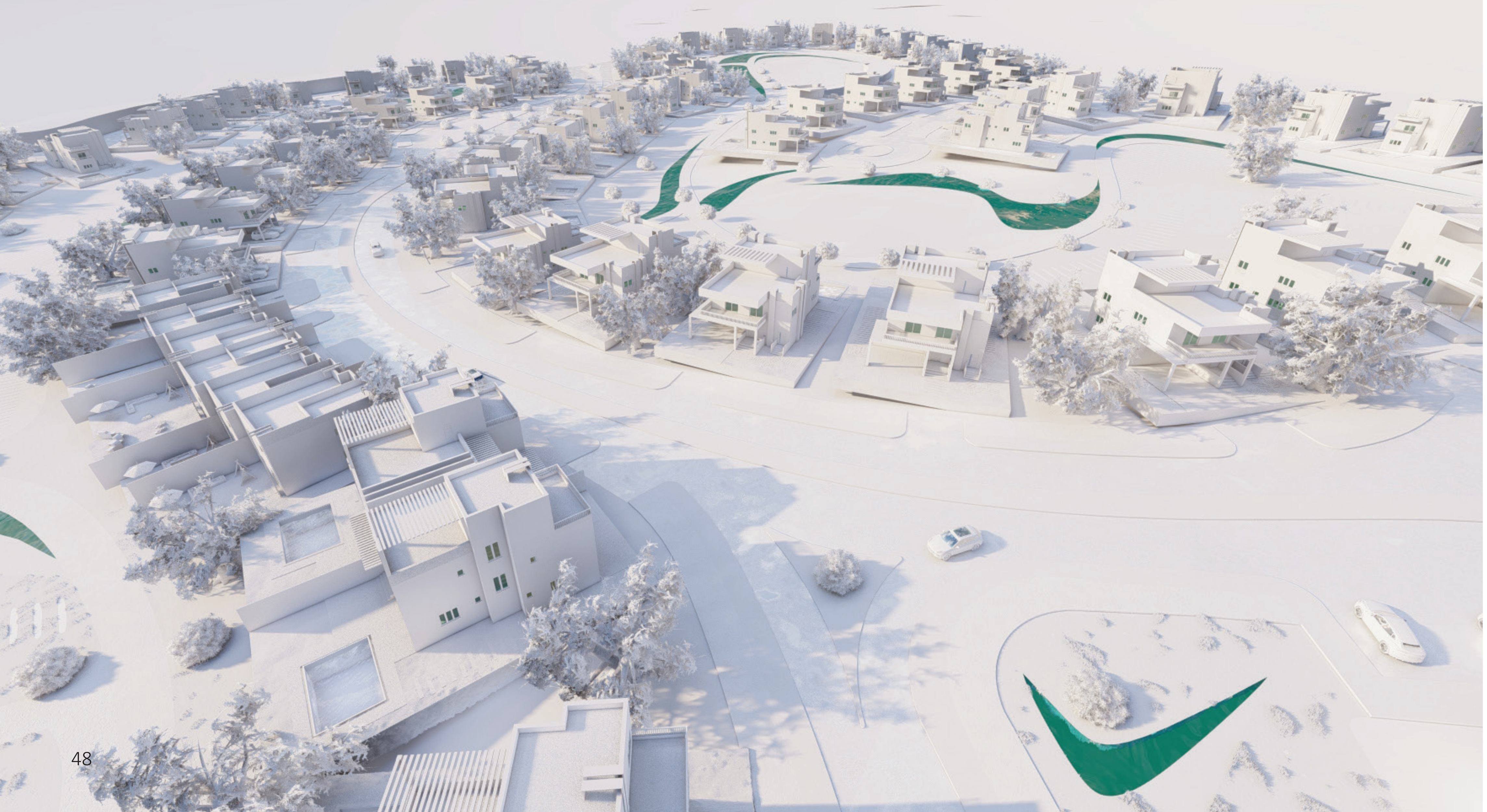
roof
1:400

YOUTH CLUB HOUSE

ground floor
1:400



roof
1:400



Renovation of Moroccan Garden

Area : 1578 m2

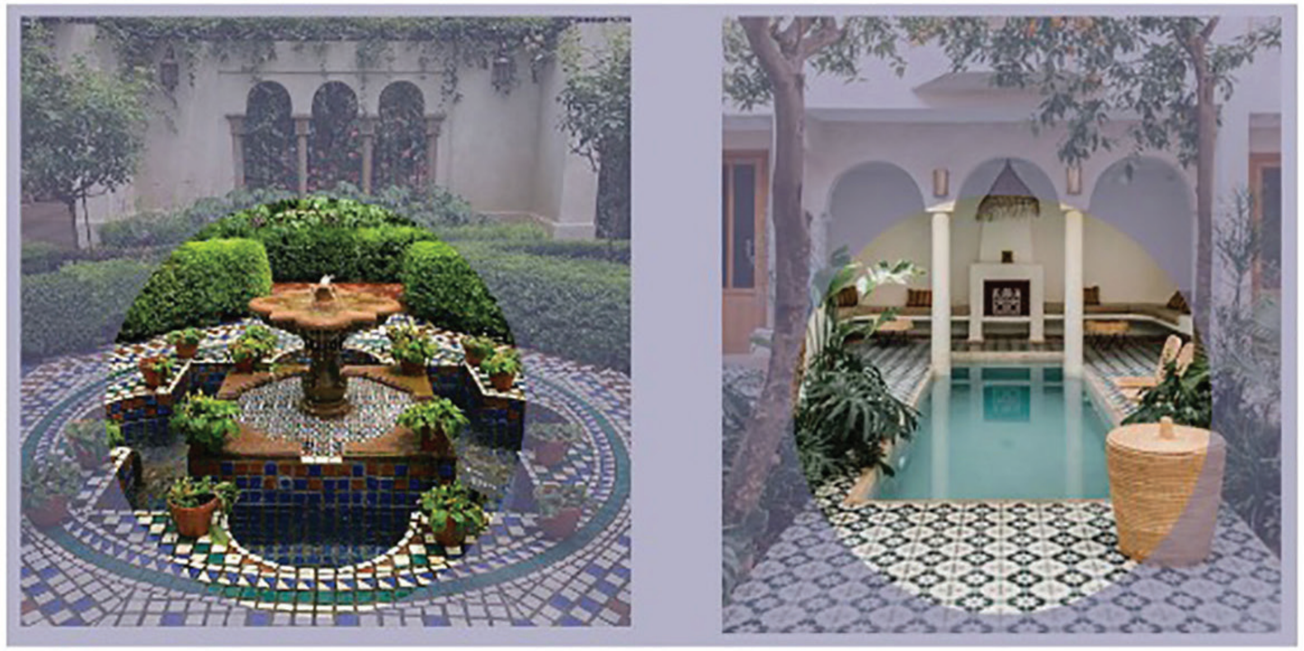
Location : International Park, Nasr City

Softwares Used : AutoCad, 3D Max, Corona renderer, Photoshop

MOROCCAN GARDENS STYLE

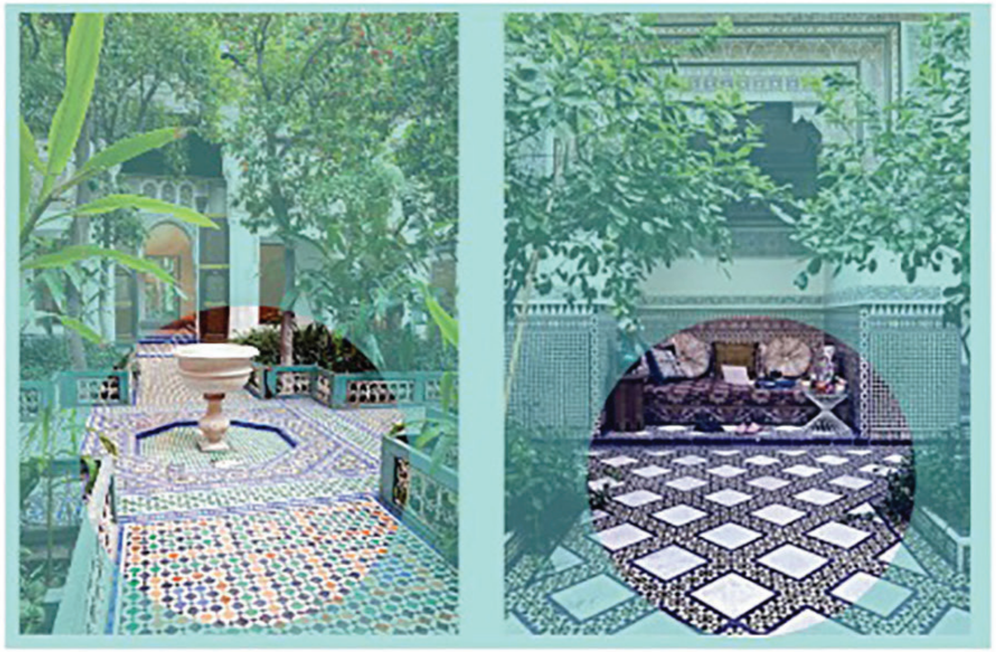
Water Feature

Fountain springing from the center of a carpet of mosaic tiles.

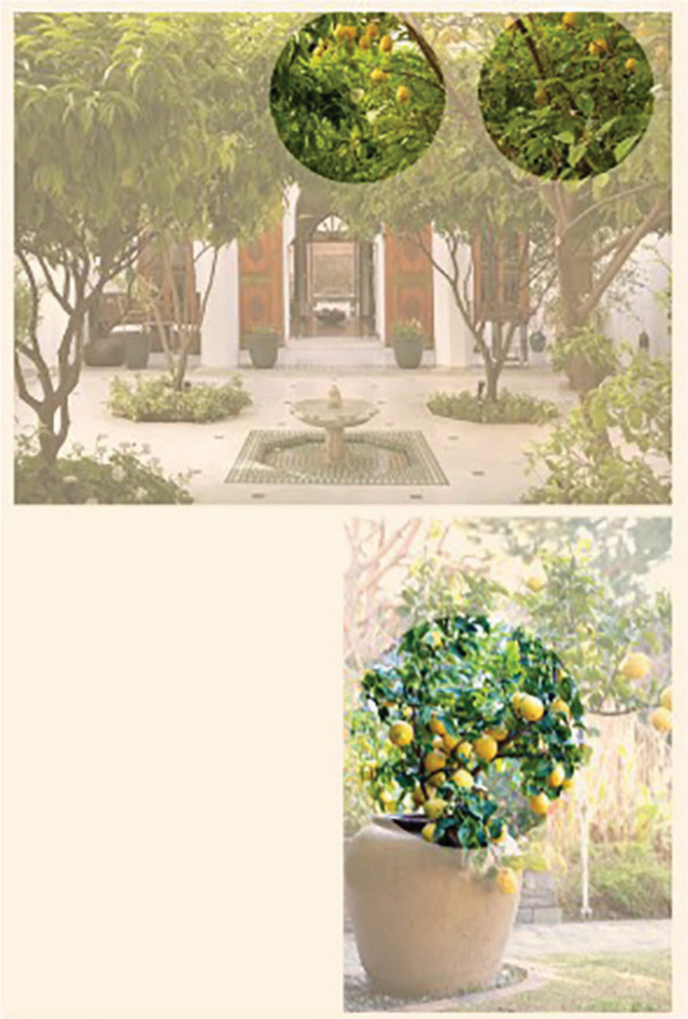


Mosaic Tiles

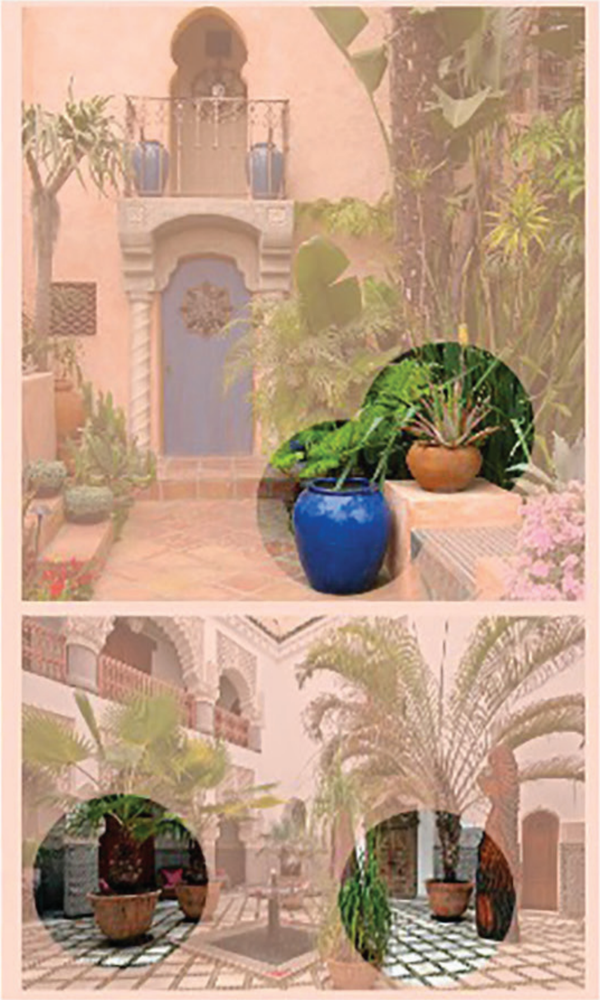
Tiles should be placed in combination to suggest mathematical, artistic or spiritual patterns.



Citrus Trees

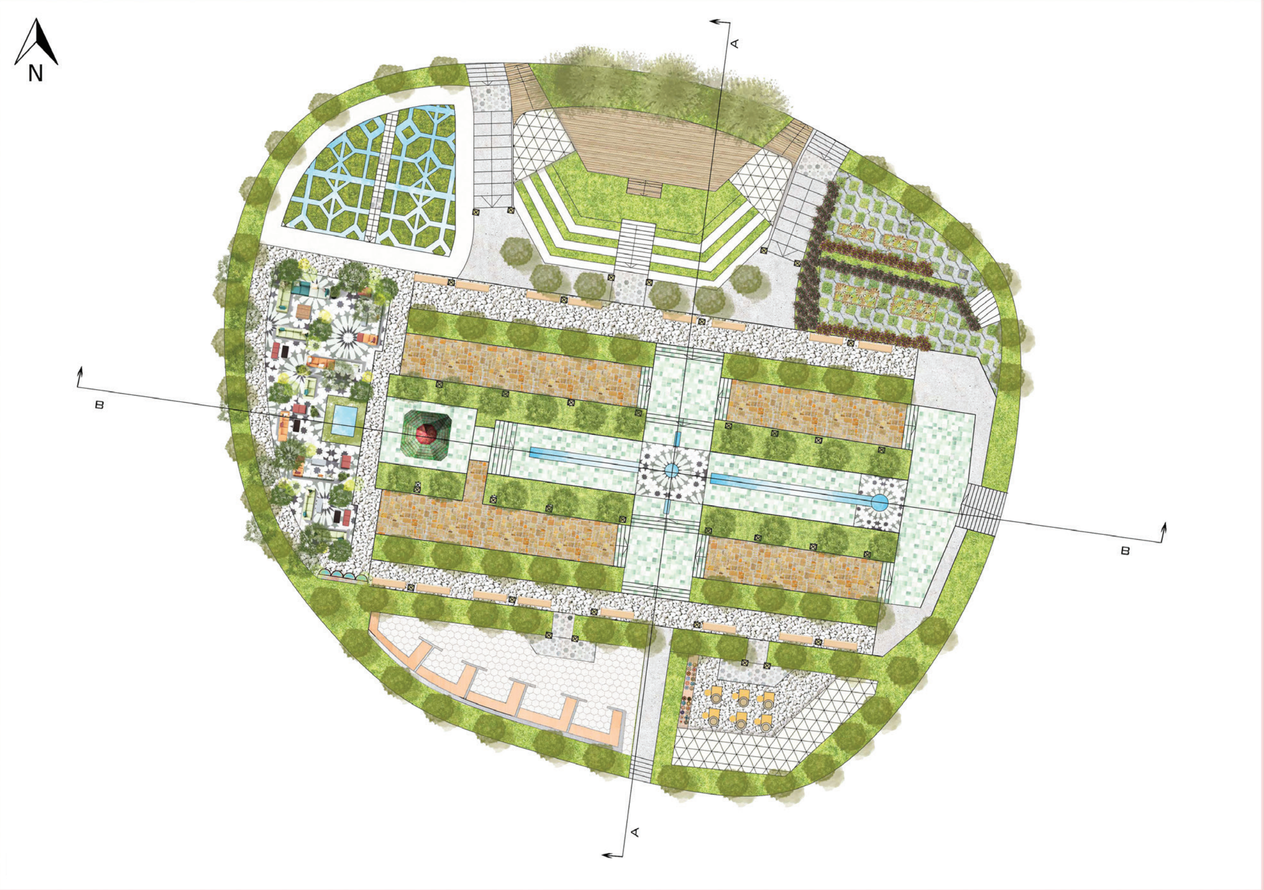


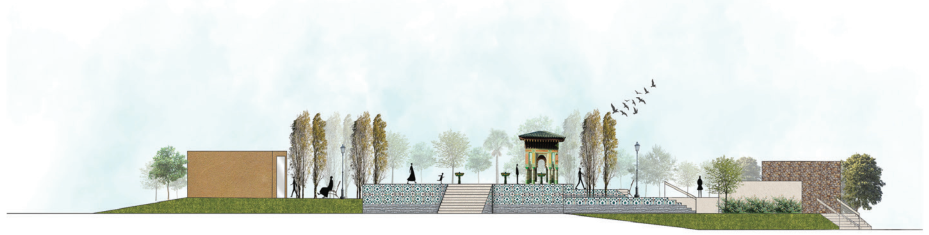
Foliage Plants set into containers



Hand-carved Furniture, striped or colorful Fabrics, Lanterns

LAYOUT





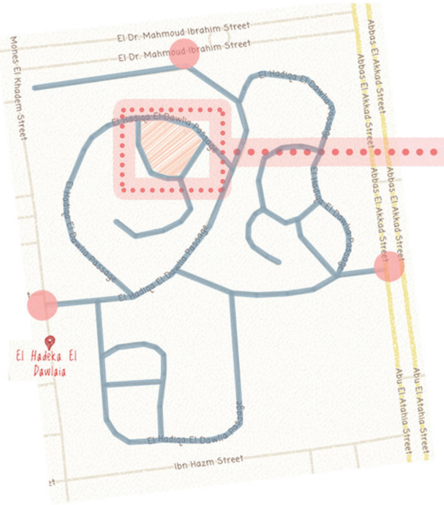
EASTERN ELEVATION

SECTION A A

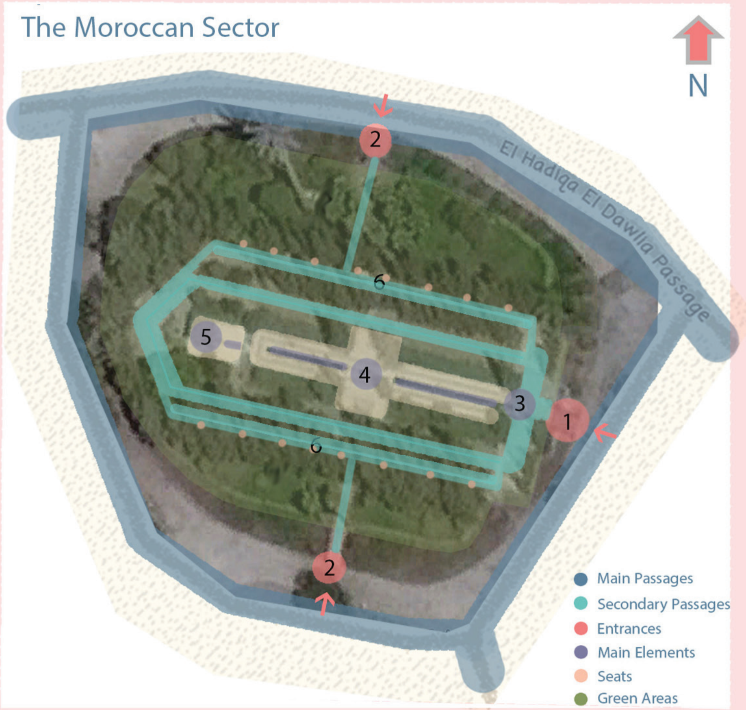
SECTION B B

TOP VIEW ANALYSIS

The International Garden



The Moroccan Sector



Conclusion

-Adding an exit in the west.

-Use the northern area to increase the activities.

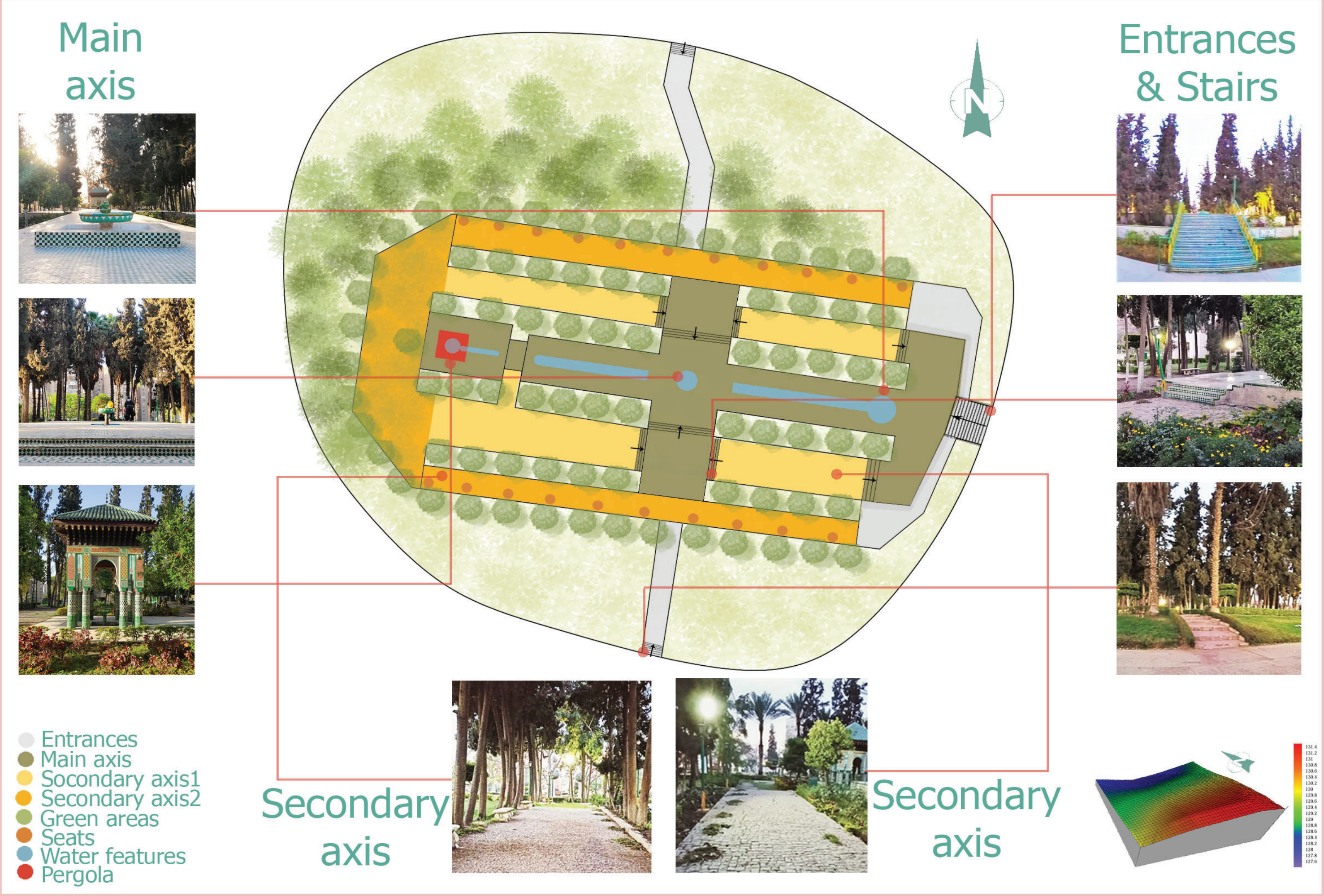
-Increaasing the seats along the passages.

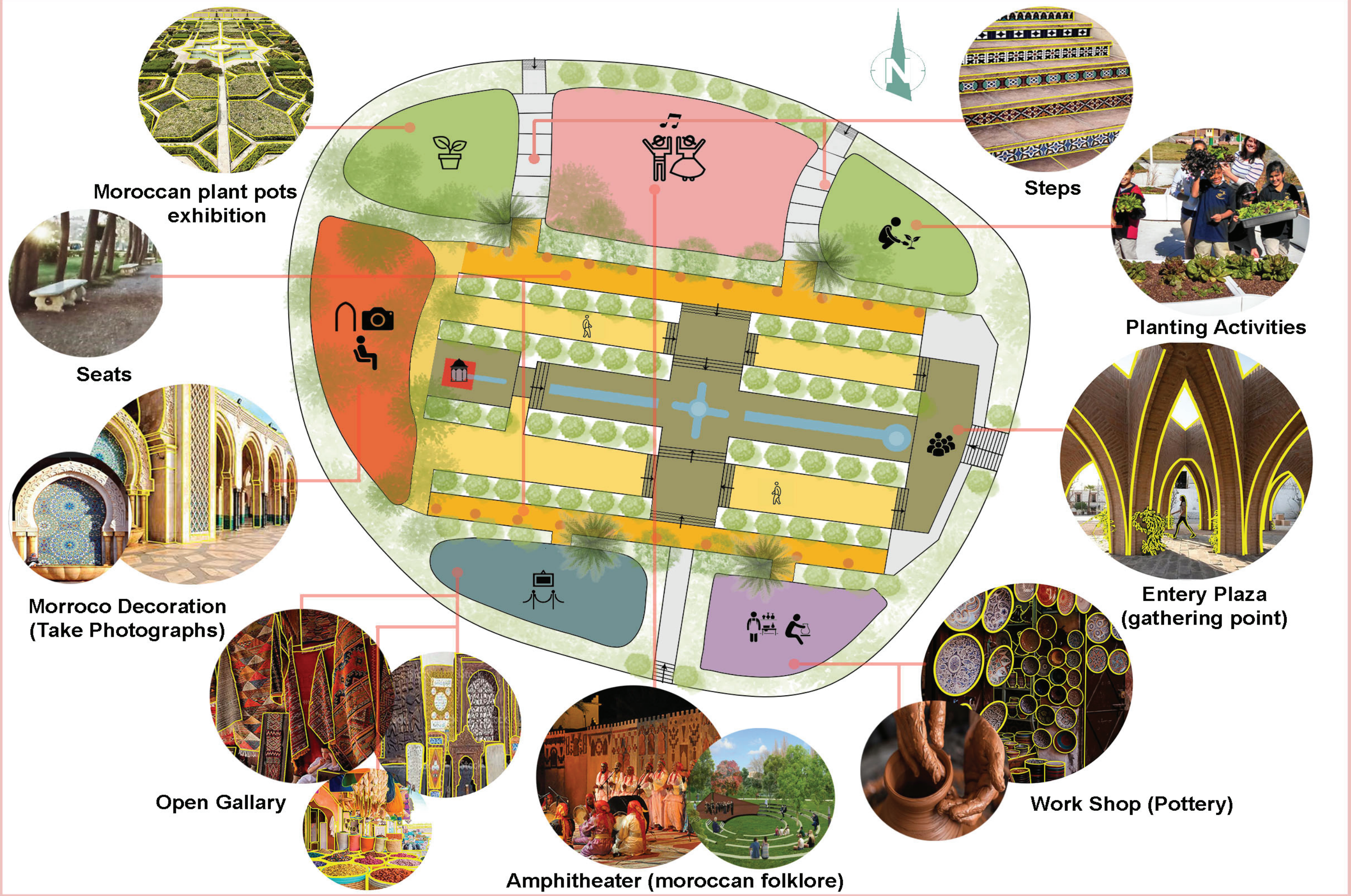
-Providing a faint lighting system with a moroccan theme.

-Adding fences in some parts to provide safety in high levels.

-Adding sector name with a guiding map and basic infos.

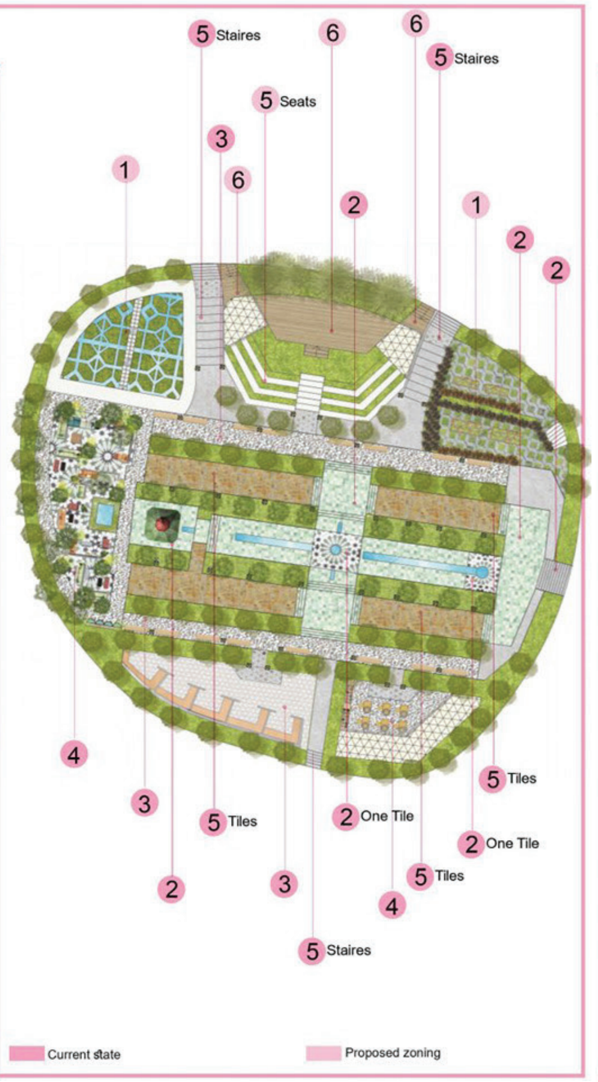
-Providing maintenance for water features, the waterway and the pergola.





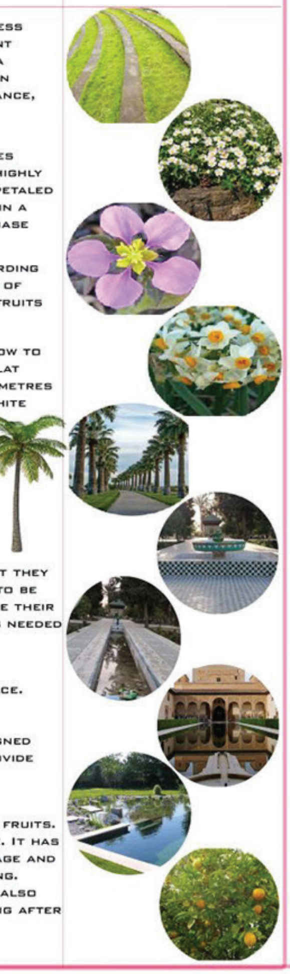
HARDSCAPE

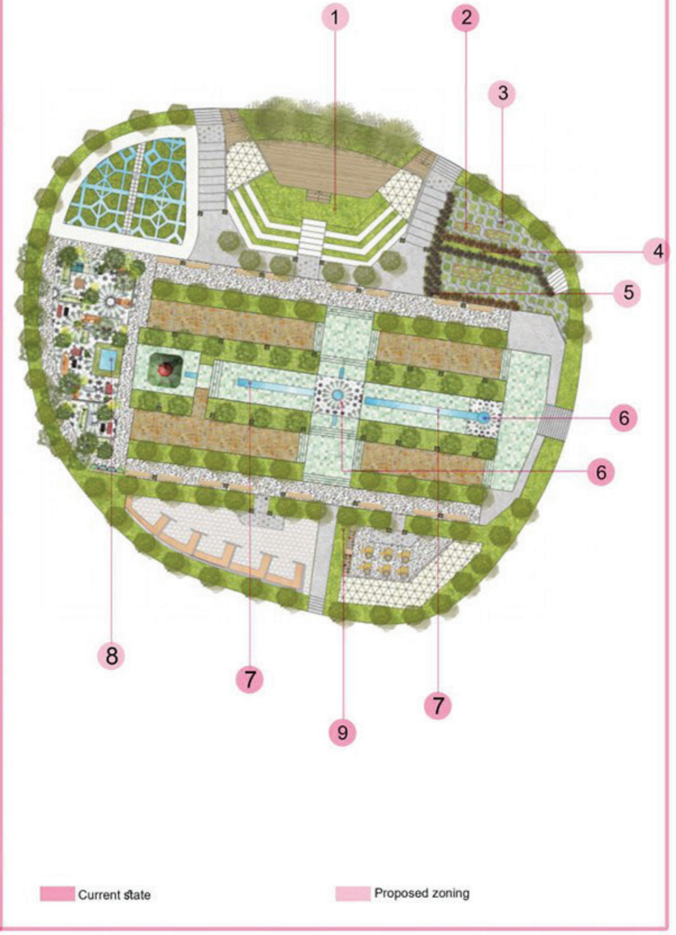
	NAME	DISCREPTION	DIMENSION	PICTURES
1	Cobblestone	is a natural building material based on cobble-sized stones, and is used for pavement roads, streets, and buildings.stepable ground cover with grass	Medium : 450*300-40 mm	
2	Mosaic	is a pattern or image made of small pieces of colored stone,glass or ceramic, held in place by plaster/mortar, and covering a surface.it is a maintained Ground cover It is part of Moroccan culture	Small (field tile): 150*150*20 mm One Tile (with islamic star) : 3*4 m	
3	Gravel	is a loose aggregation of rock fragments. Gravel is classified by particle size range and includes size classes from granule-to boulder-sized fragments.it is a maintained Ground cover	Average : 65*15*10 mm	
4	Ceramic	is any of the various hard, brittle, heat-resistant and corrosion-resistant materials made by shaping and then firing a nonmetallic mineral, such as clay, at a high temperature.it is a maintained Ground cover related to the moroccan decorations	Medium : 400*400*8 mm	
5	Stone	is a small piece of rock .A rock is any naturally occurring solid mass or aggregate of minerals or mineraloid matter. It is categorized by the minerals included, its chemical composition and the way in which it is formed. Rocks form the Earth's outer solid layer, the crust, and most of its interior . it is a maintained Ground cover	Average (tiles) : 400*200*30 mm Seating steps : hieght 500mm Staires : hieght 150mm	
6	Wood	Wood is a porous and fibrous structural tissue found in the stems and roots of trees and other woody plants. It is an organic material – a natural composite of cellulose fibers that are strong in tension and embedded in a matrix of lignin that resists compression.	HDF Boards: 1000*200*5 mm	
7	Red Clay	is a type of fine-grained natural soil material containing clay minerals.	Medium : 300*300*12 mm	



SOFTSCAPE

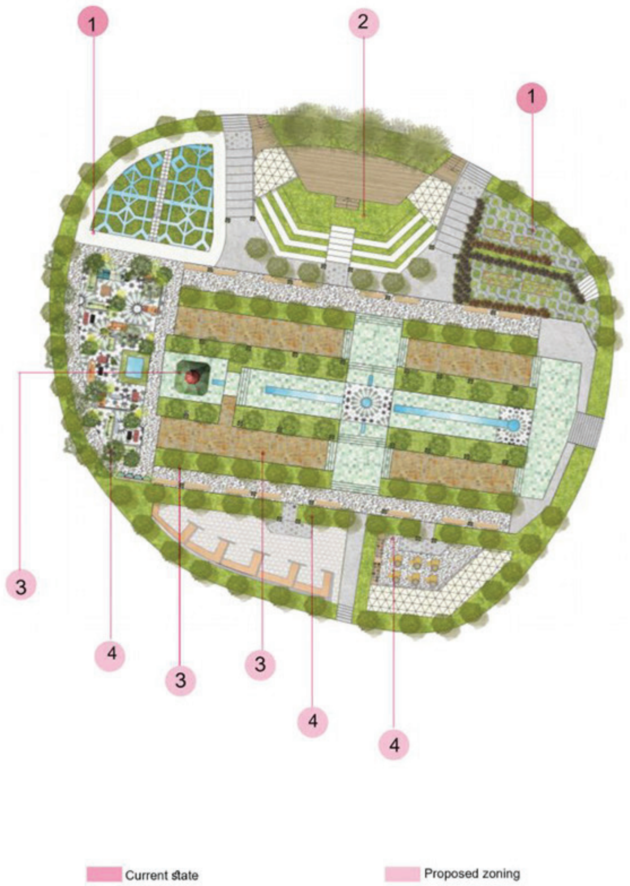
	NAME	DISCREPTION	PICTURES
1	Herniaria glabra (stepable ground cover)	it's known as green carpet in the landscaping business because of its ability to spread and cover. One plant can easily spread out to2feet.Plus, because it has a deep tap root, drought tolerant. The plant works in areas with heavy foot traffic. It's very low-maintenance, only requiring pruning to clean its shape.	
2	Cistus	The leaves are evergreen, opposite, simple,usually slightly rough-surfaced, 2–8 cm long.In a few species (notably C. ladanifer),the leaves are coated with a highly aromatic resin called labdanum.They have showy 5-petaled flowers ranging from white to purpleand dark pink,in a few species with conspicuous dark red spot at the base of each petal	
3	Fagonia cretica	Plant has sweet, bitter, sharp and sour taste according to different stages of growth and parts. The color of flowers is purple.Plant haslarge number of small fruits near thorns	
4	Narcissus tazetta	it's amongst the tallest of the narcissi, and can grow to a height of up to 80 centimetres (31 in),with thin, flat leaves up to 40 centimetres(16 in)long and 15 millimetres (0.59 in) wide. Umbels have as many as 8 flowers, white with a yellow corona.	
5	palm trees	its large trunk extent to the tip wherethe foliage extends widely. the foliage is composed of linear grayish-green leaflets that grow in 3 direction it's edible fruits areplaced. it's a long living plant 80-100 years	
6	Self-Contained Fountains	As the name implies, these types of fountains are completely self-contained. They have everything that they need in order to operate properly and do not need to be placed in a pond or pool.Fountains such as this have their own pump in the internal plumbing structure that is needed so that it can function properly.	
7	Reflecting pool	It usually consists of a shallow pool of water, undisturbed by fountain jets, for a reflective surface.	
8	garden pond	is a water feature constructed in a garden or designed landscape, normally for aesthetic purposes, to provide wildlife habitat, or for swimming.	
9	Citrus sinensis	Evergreen tree,6-15 m tall, it's known for itssweet fruits. The fruit is ripe when the skin onthe fruit is orange. It has oblong to elliptic, glossy leathery dark green foliage and bears clusters of white flowers that bloom in spring. Plant orange trees in a full sun position, they can also tolerate partial shade. they do not continue ripening after picking.	





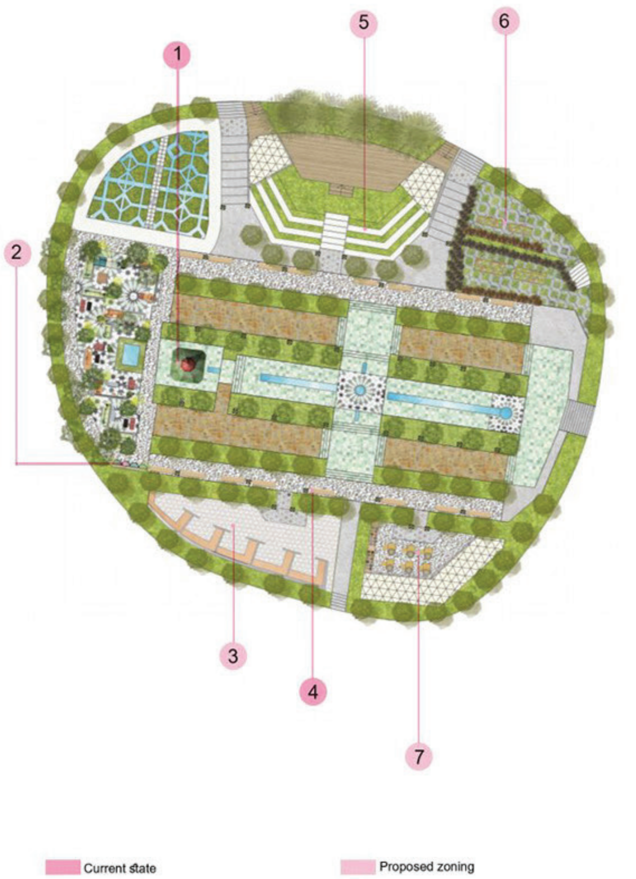
LIGHTING

	NAME	DISCREPTION	DIMENSION	PICTURES
1	LIGHT POST	HELP ACCENT THE PATHWAY AND SET AN AMBIENT TONE WITHOUT THE OVERPOWERING BRIGHTNESS OF FLOODLIGHTS	HEIGHT=2.7M DIAMETER=35CM	
2	SPOTLIGHTING	USED IN OPEN THEATERS TO FOCUSE THE LIGHT ON STAGE	DIAMETER=10CM	
3	GROUND LIGHT ELEMENTS	HELP ACCENT THE PATHWAY AND SET AN AMBIENT TONE WITHOUT THE OVERPOWERING BRIGHTNESS OF FLOODLIGHTS	HEIGHT=30 CM 10CM*10CM	
4	SUSPENDED LIGHT ELEMENT	THE LIGHT SOURCE IS PLACED HIGH UP IN THE TREE AIMED DOWN, WASHING THE BRANCHES AND GROUND BELOW IN LIGHT. IT CREATES AN IMPRESSIVE EFFECT WHEN USED WITH AN OPEN-BRANCHED TREE	DIAMETER=30 CM	



FURNITURE

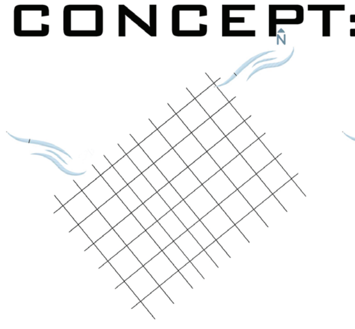
	NAME	DISCREPTION	DIMENSION	PICTURES
1	MOROCCAN LANDMARK	IT IS A LANDMARK FOR MOROCCAN AREA COVERED WITH MOROCCAN STYLE MOSAIC	HEIGHT=2.5 M LENGTH & WIDTH =1M	
2	MOROCCAN FAUCET	IT IS A MOROCCAN DECORATION FEATURE	HEIGHT=2.5 M AREA=2M2	
3	MOROCCAN CRAFTS	MOROCCAN CULTURE KNOWN WITH HAND CRAFTS LIKE TEXTILE YARN & ISLAMIC EMBROIDERY	DIFFERENT DIMENTIONS	
4	SEATINGS	SEATS MADE FROM STONE TO INTEGRATE WITH NATURE	HEIGHT=40CM LENGHT=1M WIDTH=50CM	
5	SEATINGS	SEATS MADE FROM STONE TO INTEGRATE WITH NATURE	EACH POTTERY WHEEL50*70 CM WITH 170 CM HEIGHT	
6	PLATING ZONE	MOROCCAN CULTURE KNOWN WITH IT'S AGRICULTURE AND EXTRACTING THEIR FAMOUS SPICES	EACH PLOT CONTAIN 10L WITH 28 CM WIDTH	
7	POTTERY ART ZONE	MOROCCANS ARE KNOWN WITH MAKING POTTERY LIKE TEXTILE YARN & ISLAMIC EMBROIDERY	EACH POTTERY WHEEL 50*70 CM WITH 170 CM HEIGHT	



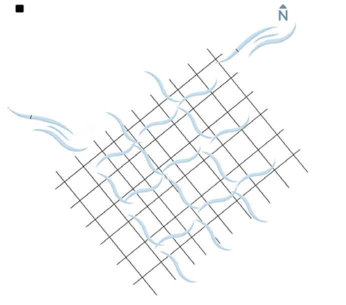
Residential Neighbourhood

Area : 60 feddan
Location : Wadi Hof, Helwan
Softwares Used : AutoCad, Photoshop

CONCEPT:

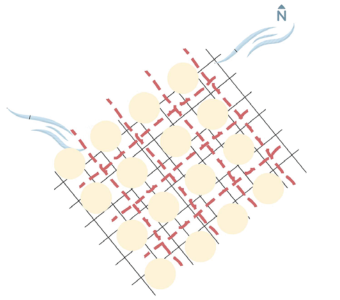


1-GRID IN WIND DIRECTION
NORTH EAST & NORTH WEST

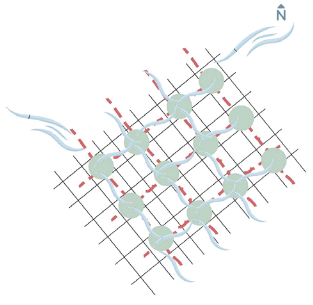


2- STREETS DIRECTION ARE
ABIDE WIND DIRECTION

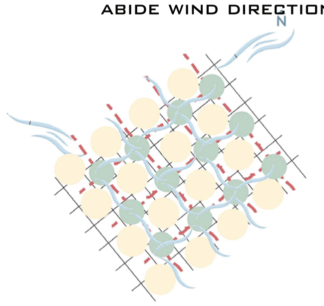
3- ZONES AND SPACES
WERE CREATED



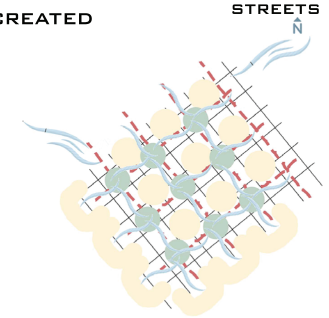
4- BETTER AIR FLOW WITHIN
STREETS CANYON



5- GREENERY WITHIN INTERSECTIONS
FOR VENTELATION & ABSORBING HEAT



6- COMBINING ELEMENTS



7- U SHAPE ENDING WORKS AS
AIR COLLECTOR

PROGRAMME:

Area	55	Feddan
Density	150	Inhabitants/Feddan
Population	8250	
Family Size	3.8	Person / family
Families	2171	

# of **land plots**	34
area	1000
dimentions	26*39
	24*42
Footprint	55%

Levels	**A**	**B**	**C**			
%	50%	30%	20%			
Units per level	1086	651	434	unit		
Area/Use/Level	30	35	20	m2		
Area per unit	114	133	76	m2		
Gross Area per unit	131.1	152.95	87.4	m2		
Units per Floor	4	4	4	unit		
Height (Floors)	5	4	6	floor		
Building % (Footprint %)	55%	55%	60%			
Units per Building	20	16	24	unit		
Footprint	524.4	611.8	349.6	m2		
Area per lot	953.4545455	1112.36	582.67	m2		
# of lots	54	40	18			
Area per level	12.2587013	10.59393939	2.497142857	Feddan	25.34978355	46.09%
Level %	0.222885478	0.19261708	0.045402597			
Units	1080	640	432			
Population	4104	2432	1641.6	8177.6	72.4	19.05263158
# of lots	55	40	18			
Area per level	12.48571429	10.59393939	2.497142857	Feddan	25.57679654	46.50%
Level %	0.227012987	0.19261708	0.045402597			
Units	1100	640	432			
Population	4180	2432	1641.6	8253.6	3.6	0.947368421
						Extra

Services

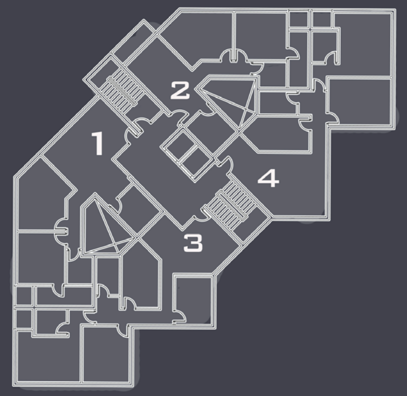
	Education			**Commercial**	
# students (-5,-10) per family	3039	students	Comm. Area per person	1.8	
class capacity	36	students	commercial area	14850	m2
# classes	84	class	# Shops per 1000 inhabitants	35	shops
service area per student	2.5	m2	# Shops per 1000 inhabitants	288	shops
Site area	7560	m2	Shop area	51.5625	m2
%	3.27%		%	6.43%	
	Health			**Entertainment (club)**	
# Beds per 1000 inhabitants	2.7	bed	Open area per person	0.9	m2
# Beds	22	bed	Open area	7425	m2
Area per bed	16	m2	% open areas	95%	
Green area per bed	10	m2	Site area	7815.789474	m2
Site area	924	m2	%	3.38%	
%	0.40%				

PROTOTYPES :

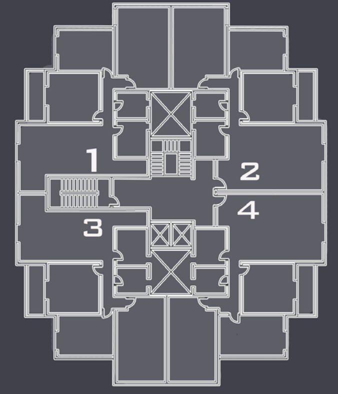
TYPE A : (50%)

AVERAGE GROSS AREA PER UNIT = 130 M^2

5 FLOORS & 4 UNITS/FLOOR



A

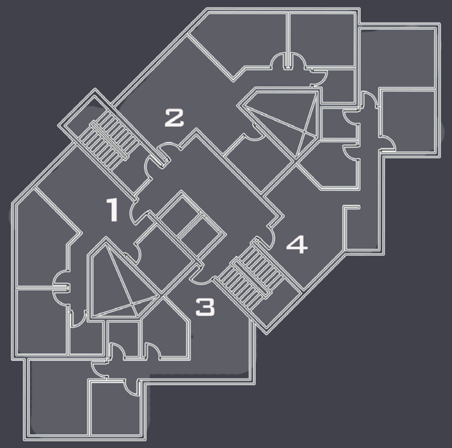


A'

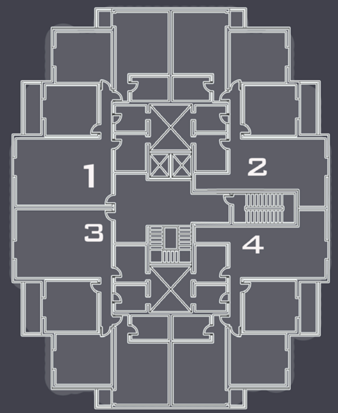
TYPE B : (30%)

AVERAGE GROSS AREA PER UNIT = 153M^2

4 FLOORS & 4 UNITS/FLOOR



B



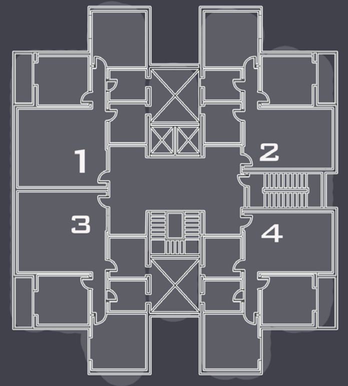
B'

TYPE C : (20%)

AVERAGE GROSS AREA PER UNIT = 88 M^2

6 FLOORS & 4 UNITS/FLOOR

C



C'

FACULTY OF ENGINEERING
URBAN PLANNING DEPARTMENT

FACULTY OF ENGINEERING
AIN SHAMS UNIVERSITY
URBAN PLANING AND DESIGN
DEPARTEMENT

LOCATION:

WADY HOF, AL MASARA DISTRICT

NORTH ARROW:

N

KEY MAP:

1 - CLUSTER TYPE A
2 - CLUSTER TYPE B
3 - CLUSTER TYPE C
4 - LANDS TYPE A
5 - LANDS TYPE B
6 - LANDS TYPE C
7 - COMMERCIAL MALL
8 - PRIMARY

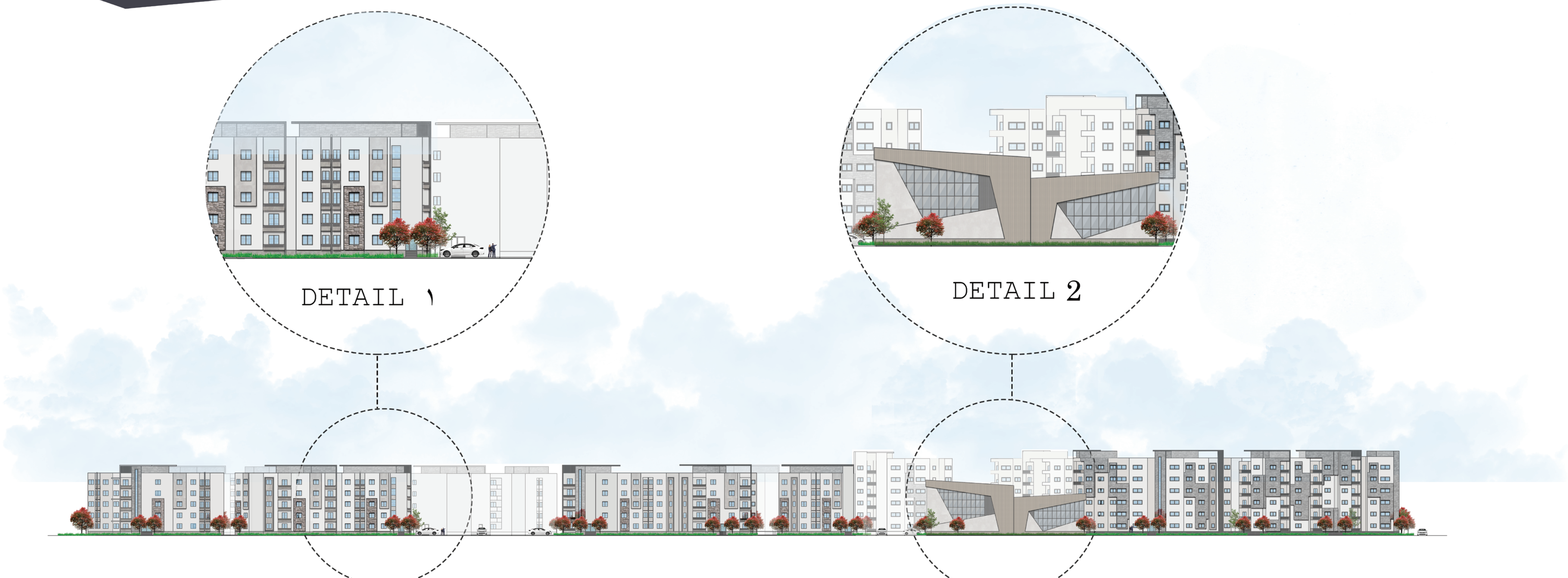
BOARD TILTLE:

LAYOUT

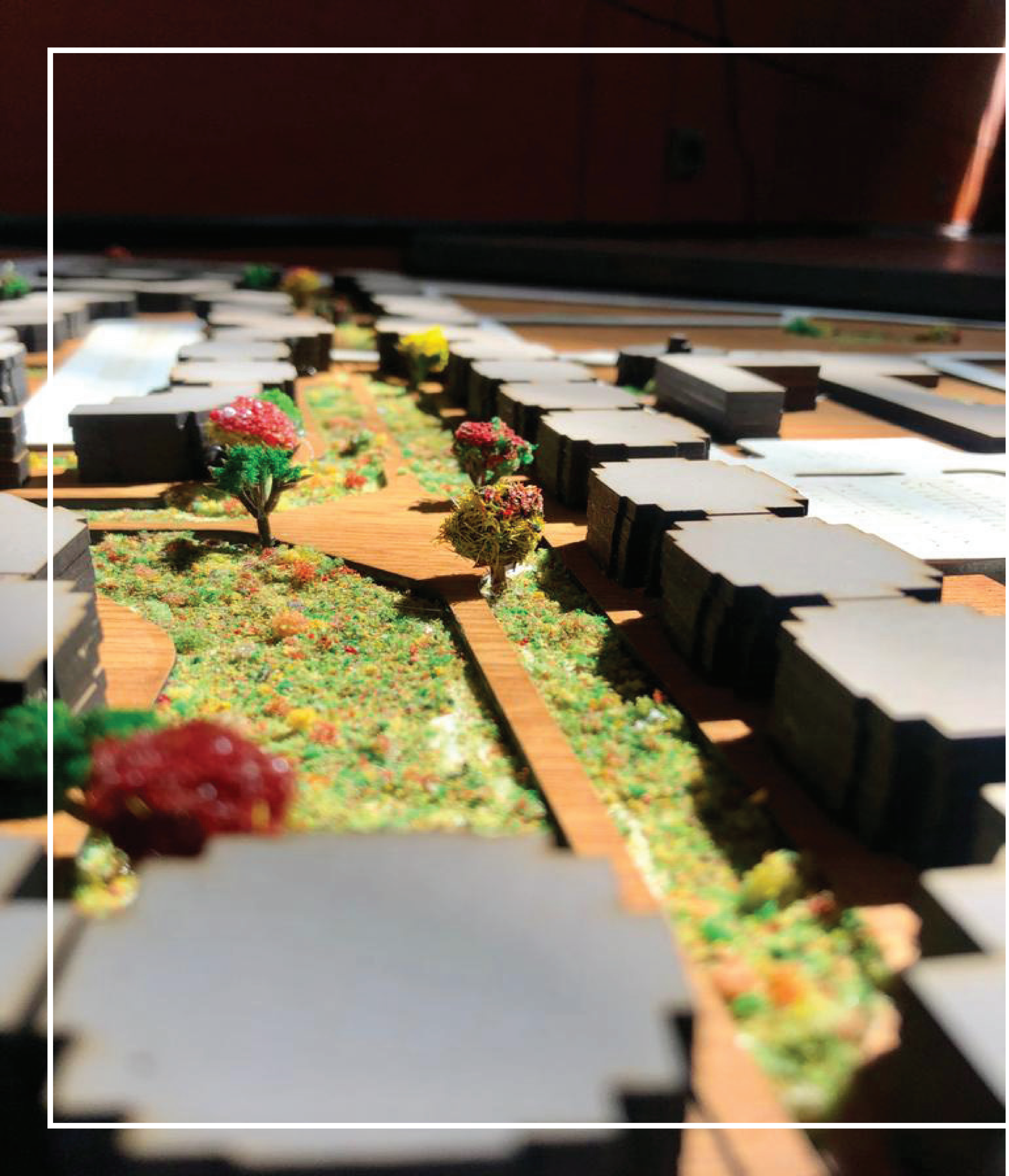
SCALE:

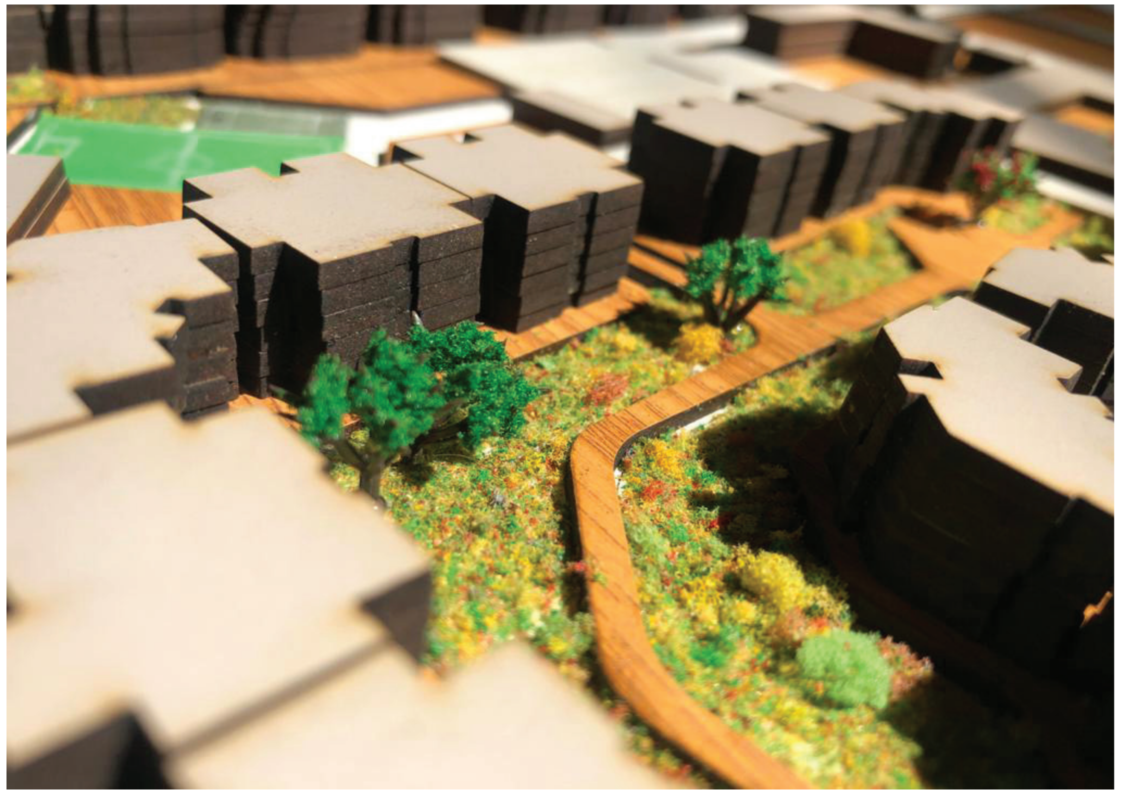
1:1000

section A-A



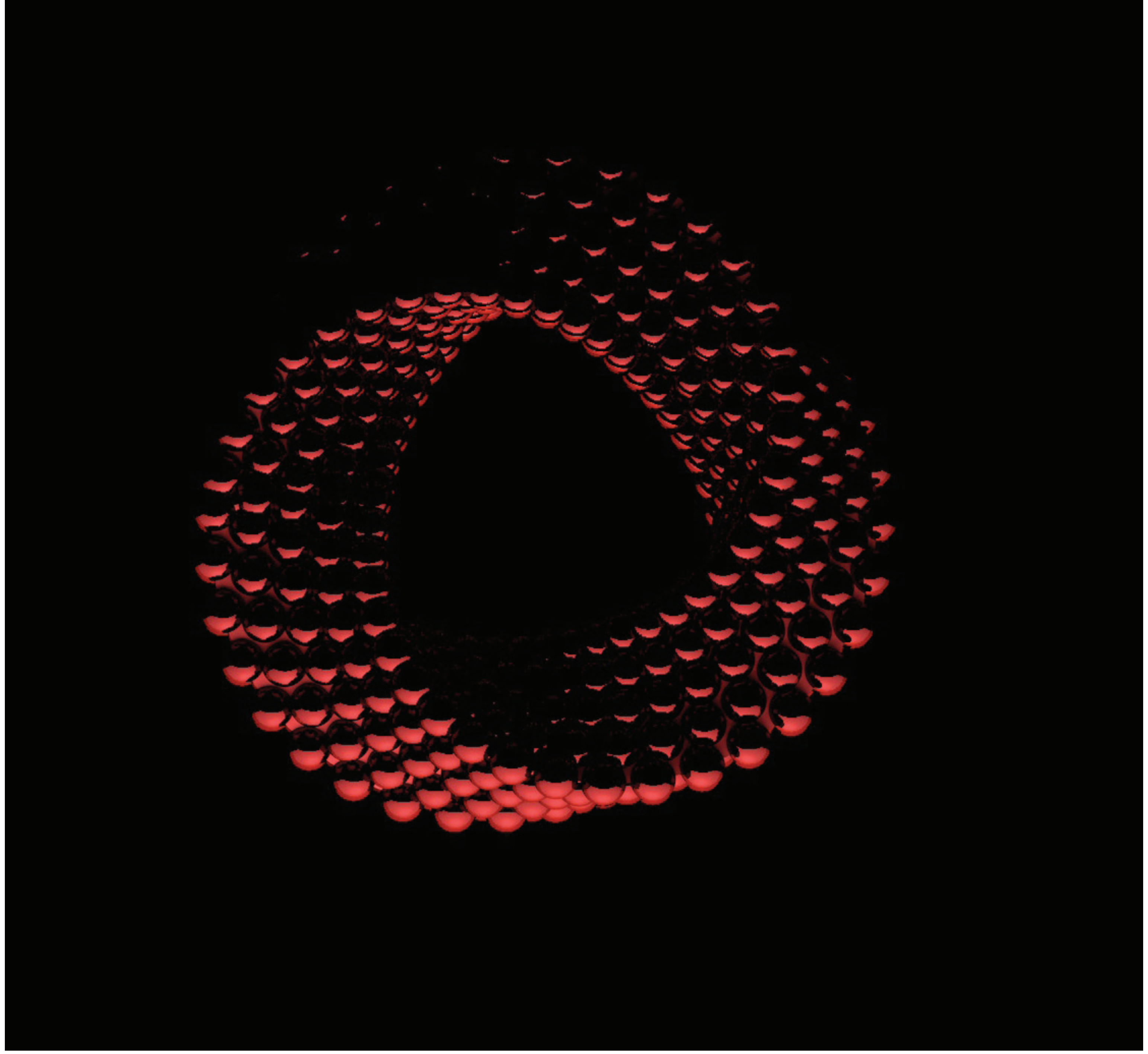
southern elevation





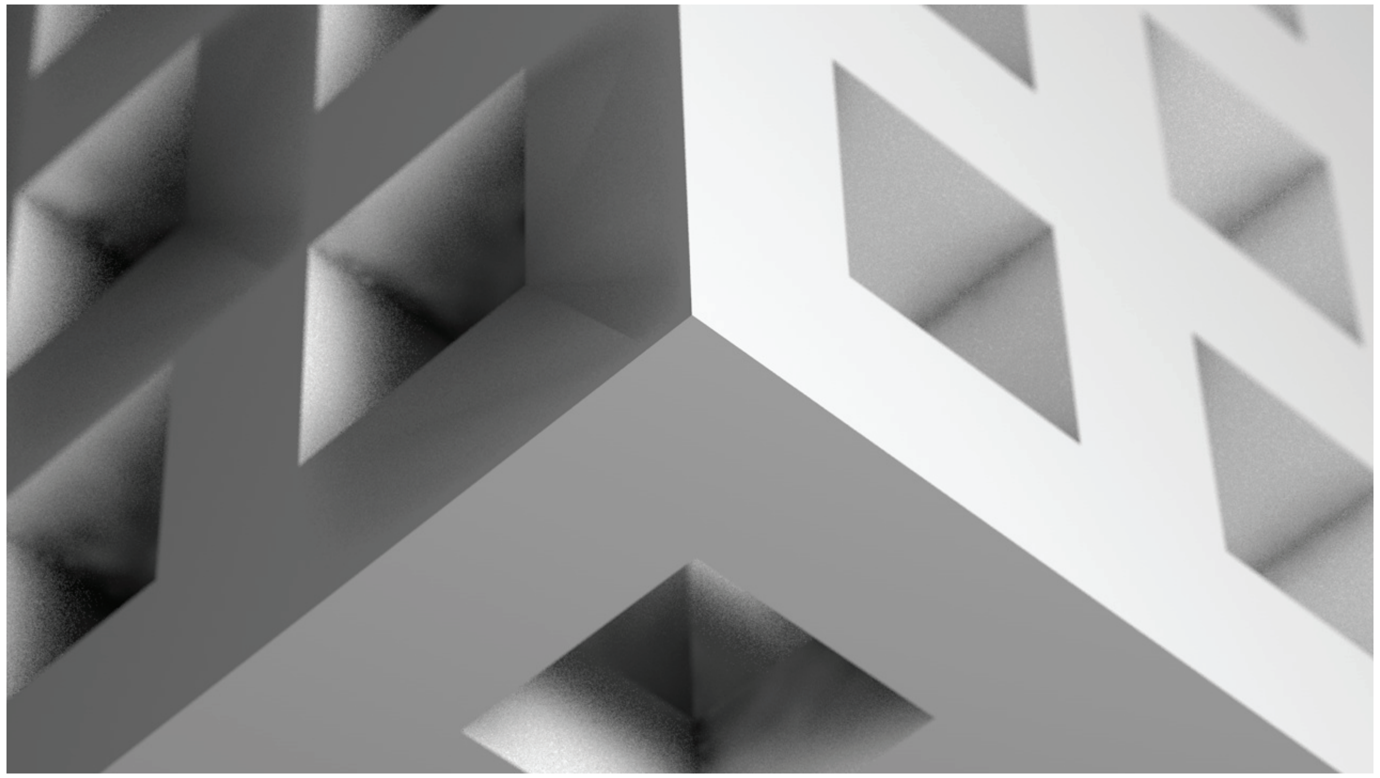
PERSONAL WORK

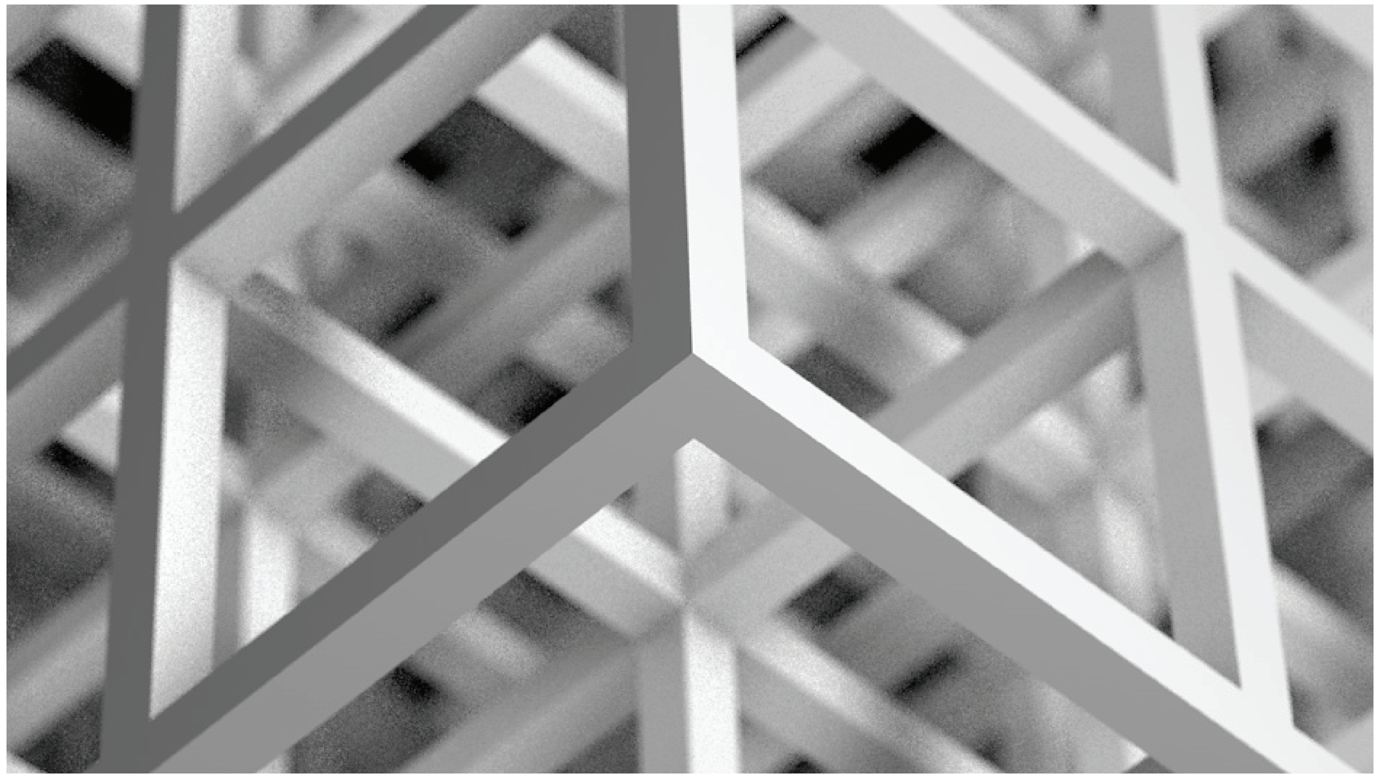
Concept Art & Animations - Photography



Möbius Strip
Based on The Timeless Journey of the Möbius Strip - inspired by a totorial

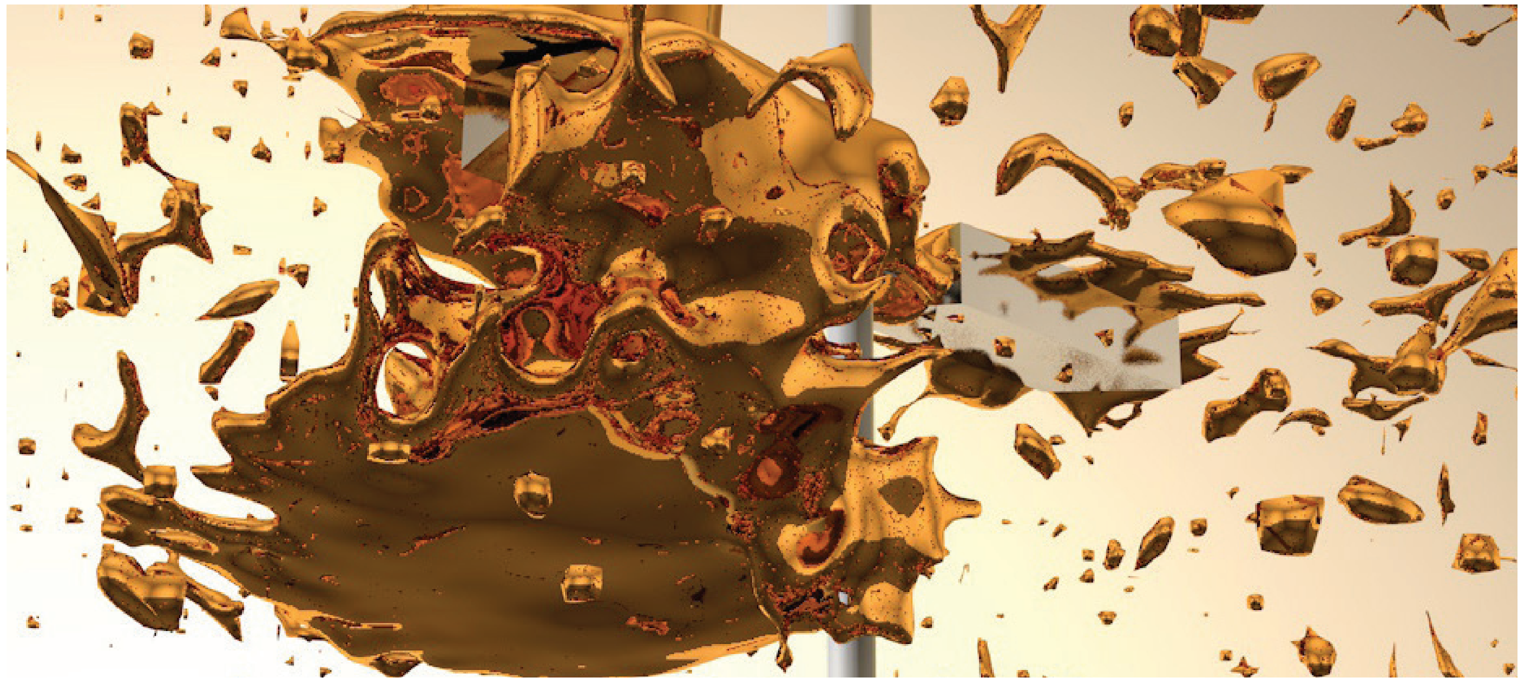
Visual Art
At First Glance it may seem one is bigger than the Other
but originally they are all the same size.
Kindly Scan the Qr Code

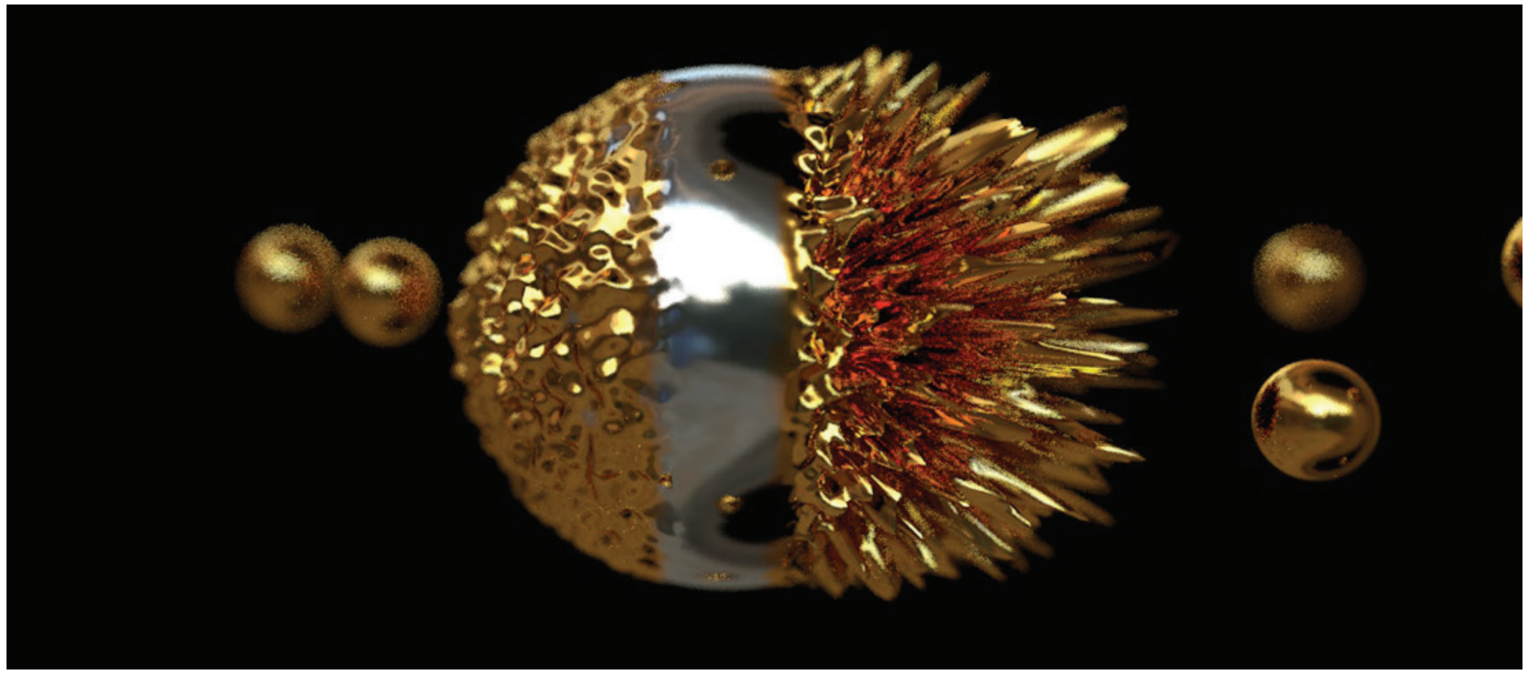


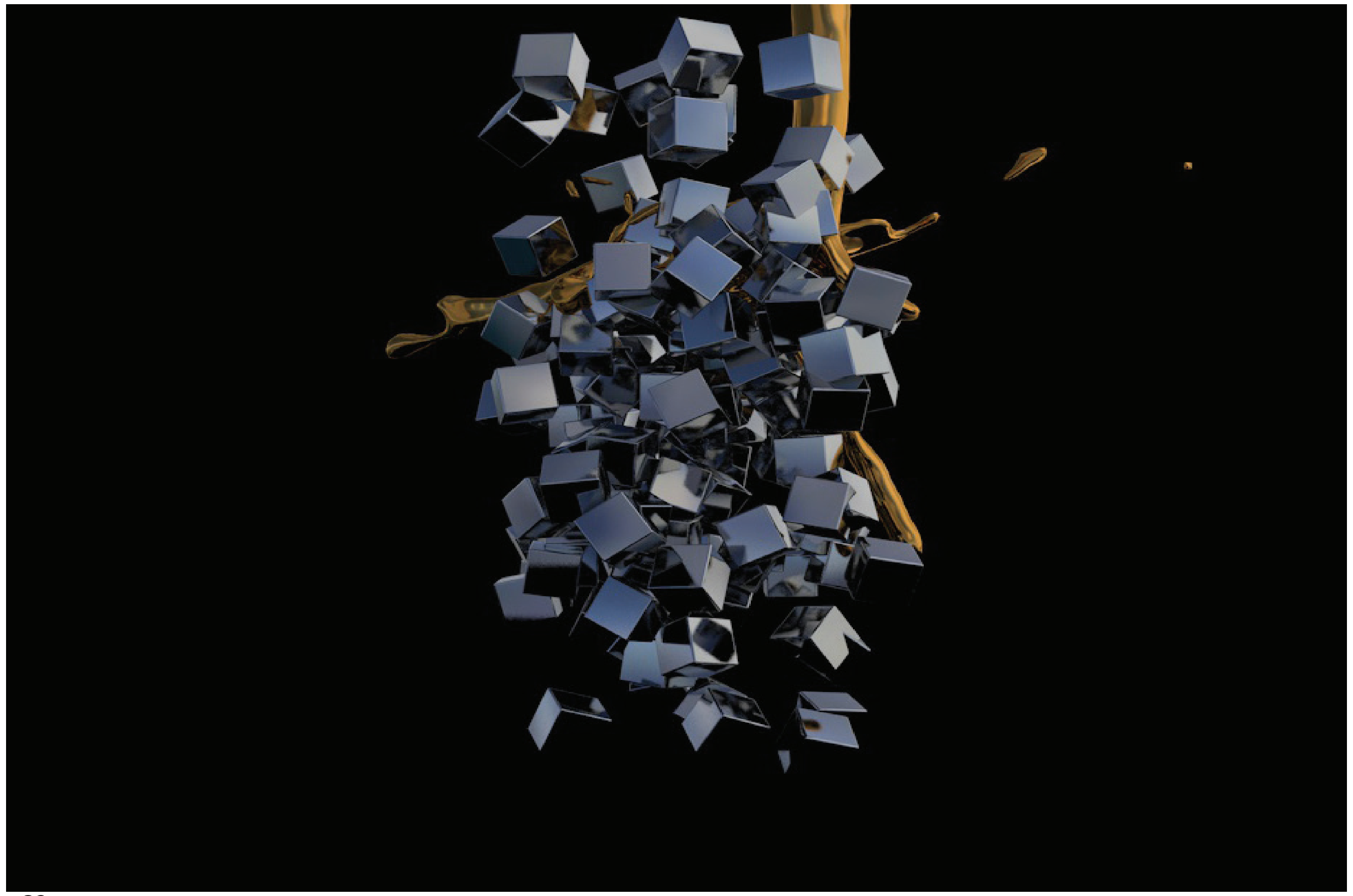


3D Animations

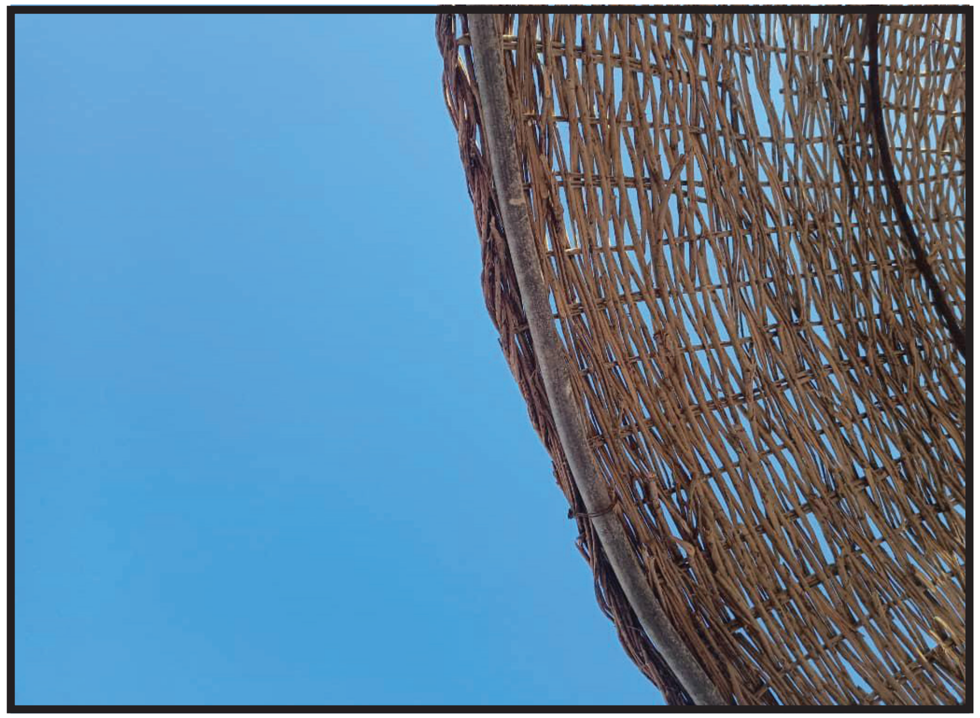
simple & light form of animations - modeled in C4D and rendered in physical renderer. Kindly scan the Qr Code

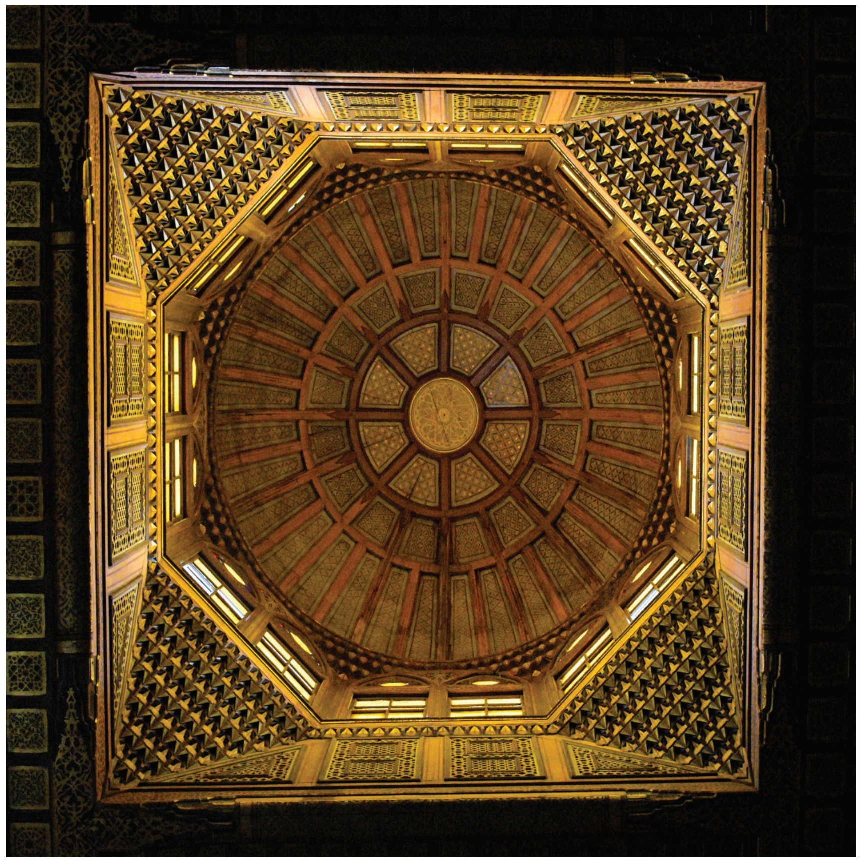






PHOTOGRAPHY





THANK YOU !